

Arch Meter Corporation

2025 Investor Conference



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Content

1. Company History and Development Strategy
2. Products
3. Industry Sectors and Market Overview
4. Business Philosophy and Operational Performance
5. Production and Capacity
6. Future Development Plans

Company Overview

➡ Background :

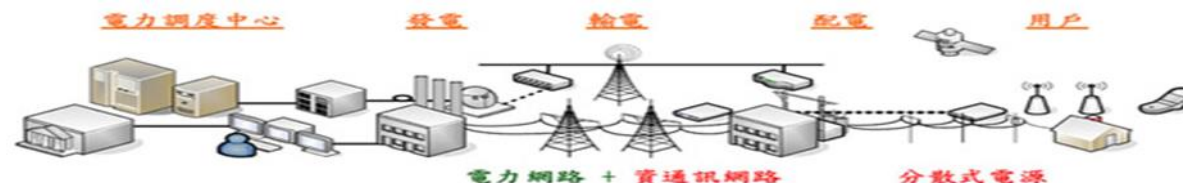
In 2005, the core team and patented technology were formed from the Institute of Energy and Resources Labs. of ITRI(Industrial Technology Research Institute). The goal is to respond to the global trend of building a smart grid, focusing on the huge business opportunities brought by smart meters, related communications and value-added services in the electrical industry

➡ Profile :

- ➡ Capital : Registered in 38.7 million US dollar, paid-up capital in 13.87 million US dollar.
- ➡ Location : Fl.4 No.3-2 Industrial East Rd.9 Hsinchu City (Hsinchu Science Park)
No.256-15, Landscape Blvd., Xiangshan Dist., Hsinchu City (Xiangshan new plant)
- ➡ Core Technology : Power measurement, communication, system integration
- ➡ Product Category : Smart grid, power monitoring instrument, energy management system

➡ Vision :

We are aiming to be “The most representative professional smart meter and energy management technology company national-wide and striving to be a professional partner of the global electric industry towards information management and services

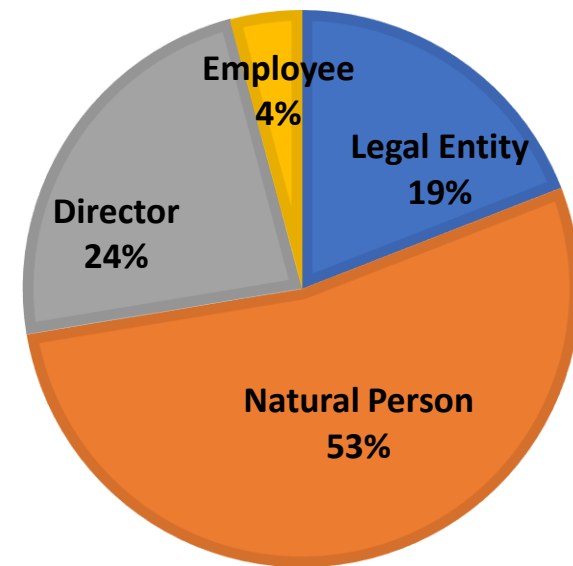


Management Team & Sharing Structure

➡ Management Team

Title	Name	Key Experience & Education
Chairman / CEO	Chen, Jan-Ku	PhD, Chemical Engineering, Tulane University, USA Head of Electric Technology Group, Energy and Resources Laboratories, Industrial Technology Research Institute
Director / Managing Director	Tseng, Wen-Liang	Master's Degree, Department of Mechanical Engineering, National Taiwan University Energy and Resources Laboratories, Industrial Technology Research Institute Director of System Engineering Office
Director	Shihlin Electric Corp. Representative: Chang, Chin-Wen	Department of Electrical Engineering, National Kaohsiung Institute of Technology President, Business Group, Shihlin Electric & Engineering Corporation
Director	Tseng, Chun Hung	EMBA, Overseas Education College, Shanghai Jiao Tong University Chairman of Suzhou Huashun Printing Co., Ltd.
Director	Yung, Teh-Yuh	Department of Mechanical Engineering, National Sun Yat-sen University; MBA, California State University, Long Beach Senior Vice President, Commercial Banking Division, Citibank
Independent Director	Chen, Shih-Chien	Doctor of Philosophy Soil and Crop Sciences, Texas A&M University Assistant Vice President, Industrial Technology Research Institute
Independent Director	Shih, Jung Shun	Master of Chemical Engineering, National Taiwan University Senior Director, Totoku Toryo Co., Ltd.
Independent Director	Hsu, Wan Hsin	MBA, Department of Business Administration, Chung Yuan Christian University CFO of Song Shang Electronics Co., Ltd.
Independent Director	Hsiao, Chin-Yi	Master of Public Administration, National Chengchi University Chief Professional Management Officer, Taiwan Power Company (Taipower) Chairman, Win Star Technology Corporation

➡ Sharing Structure



Investment corporation :

Shihlin Electric, Prolific Technology, Allis Electric, TIEF FUND, ITIC, Heye Investment, Fubon Securities Co., Ltd, First Venture Capital, etc

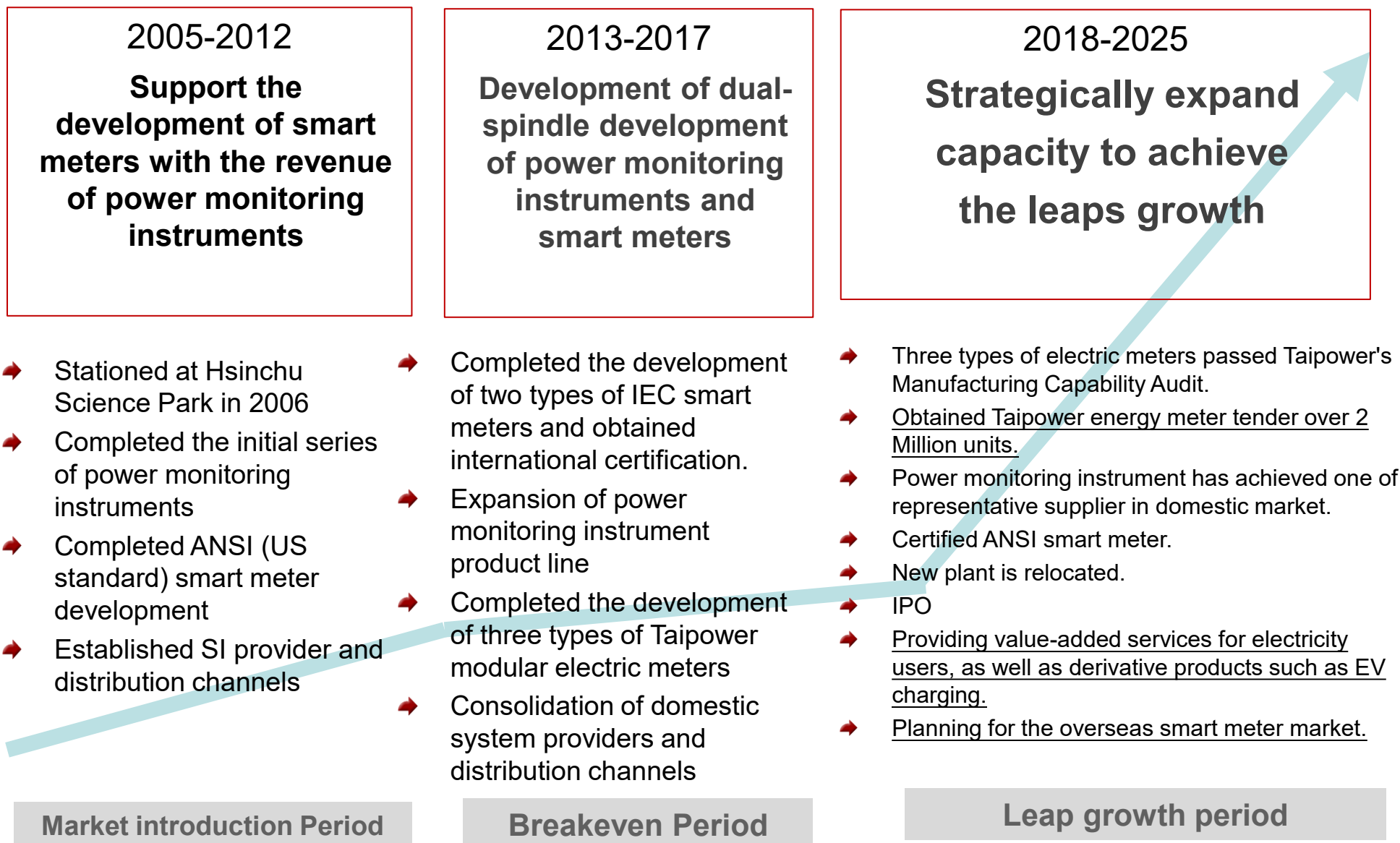
Statistical Data as of 15 July.2025

Company History & Strategy

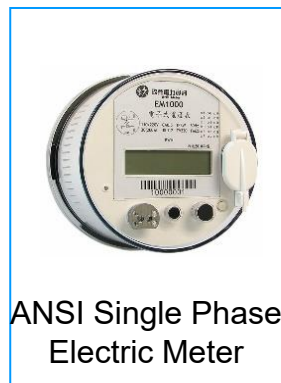
Connect meters connect the world

Development Strategy

2026 Development Strategy: Continued Expansion and Transformation.



Smart Grid Products



- ➔ At present, the new generation smart meters used by power company are the main focus.
 - ➔ Characteristics: Wide-range power supply, high-precision power measurement, power quality monitoring, load record, time of use, power failure detection, and diversified communication integration
 - ➔ Deployment: User-end load management, user value-added services, and build a new generation of smart grid.
 - ➔ Product category: ANSI smart meter (US standard, used in North America, Philippine, Taiwan), IEC smart meter (Euro standard widely used through Asia, Europe, Africa Central and South America). Taipower New Modular smart meter (ANSI structure/IEC communication)
- Meter model at specific market is under development.

Power Measurement Instrument

Power Measurement Device



➔ Switchboard power meter, used in switchboards for industrial and commercial users:

- ➔ Offers a complete range of products from basic to advanced models.
- ➔ Multi-function power measurement, power quality analysis, power consumption report, power demand prediction, diversified communication, automatic reset after power failure.

➔ Power meter for power management, front-end meter for power management system:

- ➔ Provide: compact, multi-function, load investigation, multi-circuit and other complete series of products, suitable for various field applications.
- ➔ Easy installation, flexible, complete functions, and diversified communication capabilities.

大型監控軟體

多功整合，智慧應用



客製化系統，整合用電，用水，廠務監控及雲端管理

雲端電力監控

多個群組，階層管理



監控群組 #1
監控群組 #2
監控群組 #n

遠端操作者

Internet

中央監控伺服器與資料庫

智慧手機

中小型電力監控

套裝產品，易學易用

功能

- 多迴路用電管理
- 需量預測
- 排程控制
- 用電趨勢及報表
- 網際網路監控

PM3000 電腦主控制器

電腦顯示列印

Web介面遠端監視

透過通訊可同時管理 64個電表，收集用電資訊

可連結其他系統

乙太網路

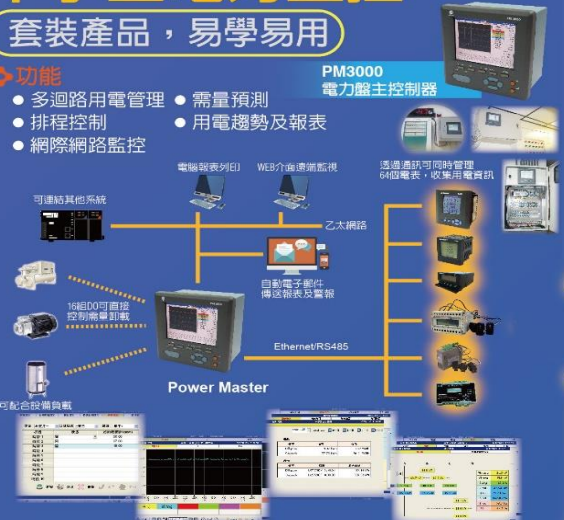
自動電子監控 傳送報表及警報

16組DO可直接控制電機設備

Ethernet/RS485

Power Master

可配合控制負載



適用於各型工廠，商辦大樓，學校，速食量販業及多店集團

預付費電能管理系統

使用者計量付費，用越少，付越少



RS485

Ethernet

中央計算及管理系統

網路集線器

EM1100/EM310 單/三相刷卡計費電表

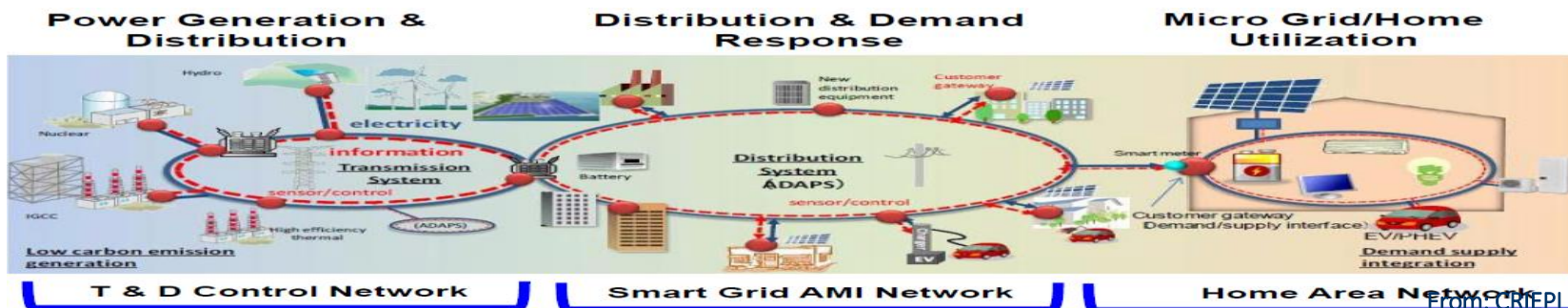
適用於宿舍，教室，企業大樓等需分戶計費及用電管控

管理系統資訊整合

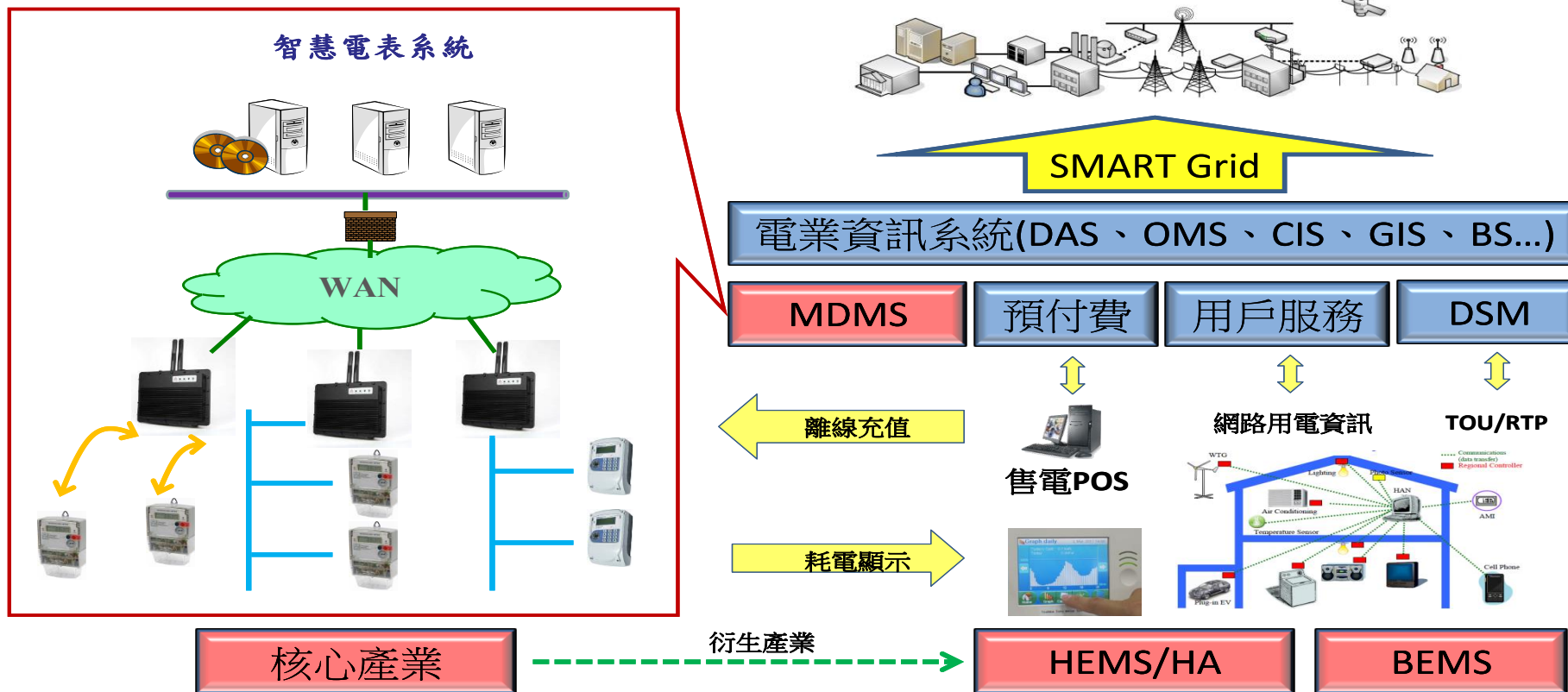
➤ Provide a comprehensive solution for small packaged systems to large scaled cloud systems.

➔ Smart Grid

- ➔ Network communication infrastructure: High reliability, self-healing capability, customer interactivity, compatibility with renewable energy, and a robust power grid for energy saving and carbon reduction.
- ➔ Composed of AMI (Advanced Metering Infrastructure), ADO (Advanced Distribution Operations), ATO (Advanced Transmission Operations), AAM (Advanced Asset Management), and their associated communication systems.
- ➔ The global smart grid market is expected to grow from 30.6 billion USD in 2020 to 162.4 billion USD in 2030, with a CAGR of approximately 18.2%. Priority projects include AMI (Advanced Metering Infrastructure) and distribution automation. (Precedence Research)
- ➔ Taiwan plans to invest 2.4 billion USD from 2020 to 2030: Smart generation and scheduling 55 million USD (2.28%), grid management (mainly feeder automation) 537 million USD (22.25%), energy storage systems 226 million USD (9.36%), demand-side management (mainly AMI) 1.42 billion USD (59.1%), and ICT infrastructure 135 million USD (5.6%). (Executive Yuan, Smart Grid Master Plan (2020))
- ➔ The smart grid connects the communication network from the power industry to the end users.



Industry Field (AMI)



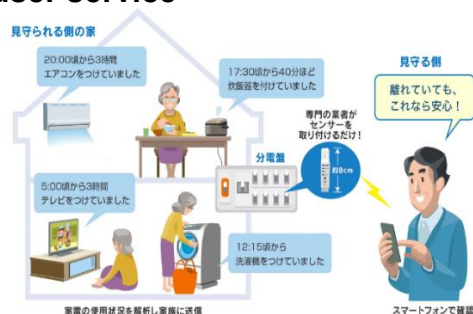
資料來源：本公司自行整理

- ➡ Core industry : Smart meter, Communication System, Information platform(MDMS)
- ➡ Derivative industries : (HEMS,BEMS),Value-added services for power industry users
- ➡ Global market(註): From 2022 to 2028, the market for smart meters is expected to reach 3.02 to 8.61 billion USD, Headend systems 1.34 to 3.74 billion USD, data collectors 98 million to 250 million USD, and communication platforms 2.07 to 6.09 billion USD.
- ➡ Arch Meter is currently focusing on smart meters and has initially invested in value-added user services.

Industry Field (AMI Derivative User Service)

- ➡ AMI Derivation : User energy management, user electricity information management, and aggregated demand response, among other diversified user services.
- ➡ Tokyo Electric Power Company, U.S. Sense Lab applies NIALM technology to capture power characteristics and combines it with AI to identify the operating status of household appliances, offering user services such as elderly care monitoring, electricity usage transparency, and autonomous energy saving." (NIALM : Non-Intrusive Appliance Load Monitoring Technology)
- ➡ Arch Meter is leveraging transient power characteristic extraction technology to develop NIALM sensors as frontend devices for derivative value-added services in the power industry.

Tokyo Electric Power Company's user service



U.S. Sense Lab NIALM sensor



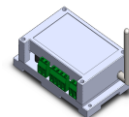
資料來源：東京電力エナジーパートナー | 電気のご契約・お手続き, (<https://www.tepco.co.jp/ep/>) ; The Sense Home Energy Monitor, (<https://sense.com/>)

Home appliance fingerprint

資料來源：本公司自行整理

NIALM傳感器

- 自動錄波
- 暫態區間
- 波形轉換分析
- 電力特徵擷取



雲端AI系統

- 暫穩態電力特徵紀錄
- 家電建模與學習
- 家電運轉狀態判別
- 衍生用戶服務



Arch Meter's ongoing NIALM project and its system structure.

Industry Field

(Power Monitoring and Energy Management)

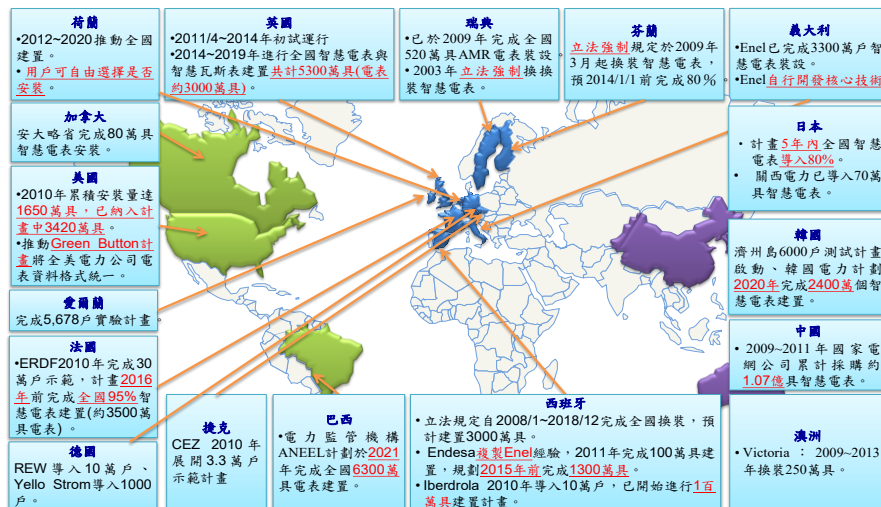
➡ Industry field and driven force

- ➡ Global demands for carbon trading, carbon footprint tracking, sustainable development, and green energy certificates are driving increased demand for energy monitoring
- ➡ The 'Greenhouse Gas Reduction and Management Act' was passed in 2015 to include carbon trading. In March 2022, the Financial Supervisory Commission announced the 'Sustainability Development Roadmap for Listed Companies, which implements greenhouse gas inventory and information disclosure for all listed companies in phases.
- ➡ Under the smart grid framework for distribution automation projects, the new communication protocol (IEC 61850 replacing DNP3) will require enhanced functionality for power monitoring devices and network transmission equipment used in distribution systems.
- ➡ The field of power monitoring and energy management products covers: frontend measurement and control devices, communication equipment, computer graphical control systems, database, and cloud service integration.
- ➡ Arch Meter is currently entering the market from the perspective of power measurement devices, computer graphical control systems, and system integration.

➡ Derivative industry

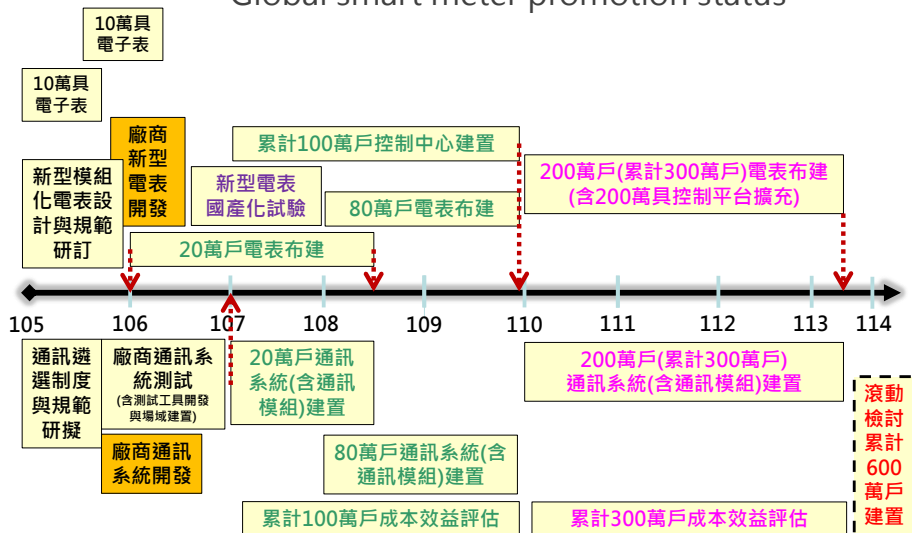
- ➡ The promotion of electric vehicles, solar photovoltaics, energy storage systems, and power load dispatching will increase the demand for power monitoring equipment.
- ➡ According to KGI Securities' report on the 'Electric Vehicle Charging Station Industry, the potential market for EV power supply equipment in the U.S. from 2020 to 2030 exceeds 7 billion USD.
- ➡ Regulatory requirements for electric vehicle charging and energy storage system dispatching will drive the demand for products such as power measurement and protection modules for charging equipment, advanced DC meters, and fast frequency detection meters.

Smart Meter Market



資料來源:工研院整理

Global smart meter promotion status



我國行政院核定的智慧電表系統建置時程

- ➔ Smart grids are establishing globally, smart meters are a priority project.
- ➔ North America, Western Europe, China, Japan, and South Korea are progressing relatively quickly, while Taiwan and emerging countries are in the early stages of standard formulation and large-scale deployment.
- ➔ Statistics MRC predicts that the smart meter market will grow from 2.427 billion USD in 2020 to 7.059 billion USD by 2028, with an annual growth rate of 14.3%.
- ➔ Taiwan Power Company (Taipower) began deploying new smart meters since 2018.
- ➔ The Executive Yuan has approved the deployment of 3 million units by 2024. Taipower plans to complete the replacement of all electricity meters by 2035.
- ➔ Taipower currently has over 14 million electricity meters, with an estimated annual replacement volume of 1.5 to 2 million units. The annual market size for smart meters is approximately 113 million USD to 151 million USD.
- ➔ Taipower has purchased 4.45 million units during 2022-2024
- ➔ Taipower purchased 3.30 million units in March 2025, and additional 1.15 million units at original contract.

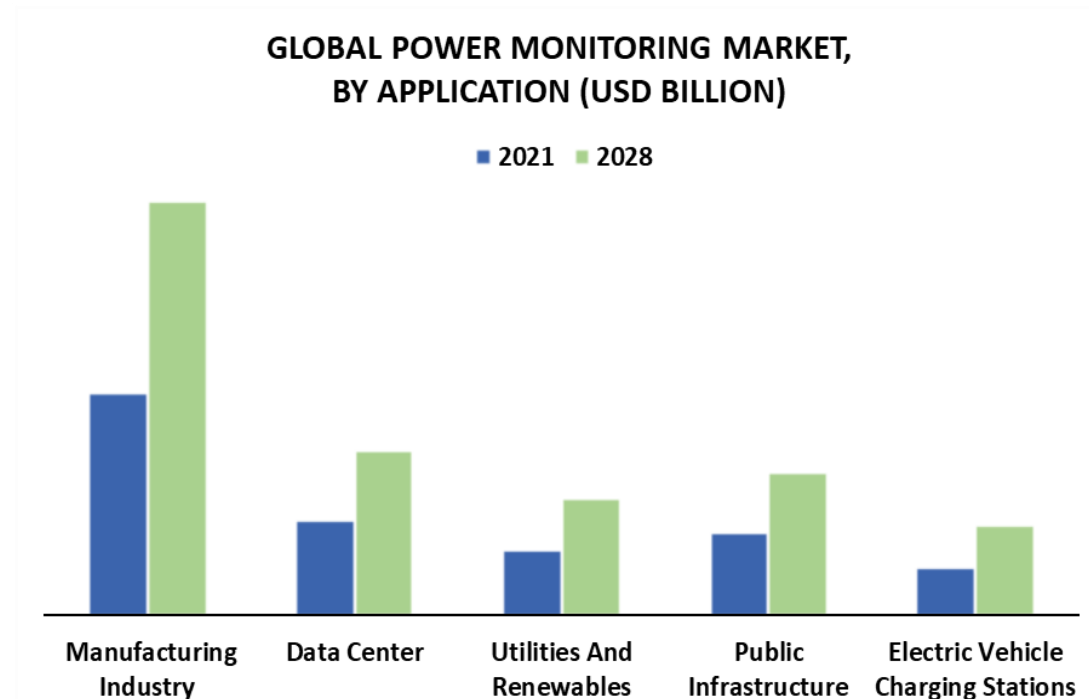
Power Monitoring Device Market

The global market size was approximately **3.8 billion USD in 2019**, and is **expected to grow to 5.2 billion USD by 2024**, with a **compound annual growth rate (CAGR) of 6.1%**.
(MarketsandMarkets)

Leading suppliers : **Schneider, ABB, Eaton, Siemens, GE, Rockwell, Mitsubishi, Omron, Yokogawa** °
(MarketsandMarkets)

The global market size was approximately **3.5 billion USD in 2020**, and is **expected to grow to 5.3 billion USD by 2028**, with a **compound annual growth rate (CAGR) of 5.38%**.(Verified Market Research)

The manufacturing industry has the highest demand share, and the growth of data centers, renewable energy, and electric vehicles in the future will drive new demand.



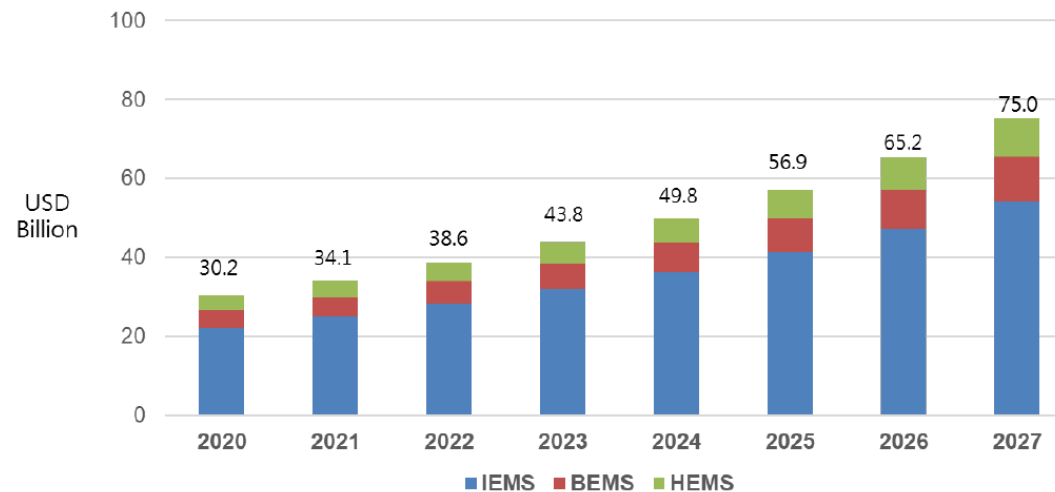
Data Source: <https://www.verifiedmarketresearch.com/product/power-monitoring-market/>

Report ID: 25057 | Published Date: Oct 2022 | No. of Pages: 202

•Global Power Monitoring Market Size By Type (Hardware, Software, Service), By Application (Manufacturing Industry, Data Center, Utilities and Renewables), By Geographic Scope And Forecast

Power Management System Market

- ➔ According to MarketsandMarkets, the global energy management system market is expected to grow from 38.6 billion USD in 2022 to 75 billion USD in 2027, with a compound annual growth rate (CAGR) of 14.2%.
- ➔ IEMS accounts for 72.3%, BEMS accounts for 15.1%, and HEMS accounts for 12.7%.
- ➔ Hardware accounts for 62.4%, Software accounts for 24.6%, and Service accounts for 14%.
- ➔ Major supplier : Siemens, ABB, Schneider, Hitachi, GE, Emerson, Mitsubishi, Eaton, Honeywell, IBM, Cisco.



Note::resource from : "Energy Management Systems Market by Component, Type, Deployment, End-user Industry and Region Global - Forecast to 2027", MarketsandMarkets Research

Business Philosophy and Revenue Status

➡ Business Philosophy :

- ➡ Integrity, Innovation, Quality, Service
- ➡ Vision: “To achieve the most representative professional smart meter and energy management technology company in Taiwan, and a global partner for the electric power industry in advancing toward information-based management and services.”

➡ Revenue Status

Unit: USD thousands

Product category	2022		2023		2024		2025 Q3	
	Revenue	%	Revenue	%	Revenue	%	Revenue	%
Smart Grid	16,617	72.0%	28,512	85.2%	29,090	84.2%	16,231	81.1%
Power monitoring Device	3,941	17.1%	3,751	11.2%	4,102	11.9%	3,135	15.7%
Power Management System	2,525	10.9%	1,186	3.5%	1,351	3.9%	641	3.2%
Total	23,084	100%	33,450	100%	34,545	100%	20,008	100%

Total revenue from Jan. to Nov. 2025 is USD 24.584 million. 40k meters (USD 2.75 million) will be delivered throughout Dec.2025

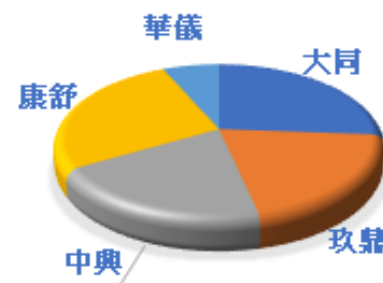
Operation Performance (Power Monitoring& Management)

- ➔ Power monitoring instruments are widely used by high-tech factories, major switchboard factories, and large industrial and commercial users, that has made us becoming one of the leading manufacturers in Taiwan.
- ➔ Collaborate with major domestic SI (ChungHwa Telecom, ITRI, Advantech, Delta, Insynerger, KLD, etc.) integrating with our power management system related products in promoting to users including: schools, industrial and commercial users, etc.
- ➔ Cases :
 - ➔ More than 30 colleges, 50 junior high schools.
 - ➔ Some Telecom companies base station meter.
 - ➔ Major domestic large-scale high technology companies.
 - ➔ Domestic private large-scale industrial users.
 - ➔ Hospitals, commercial buildings and chain stores and other related commercial users.
 - ➔ Executive Yuan Primary schools project- supplied energy meter and billing system to 7 cities.

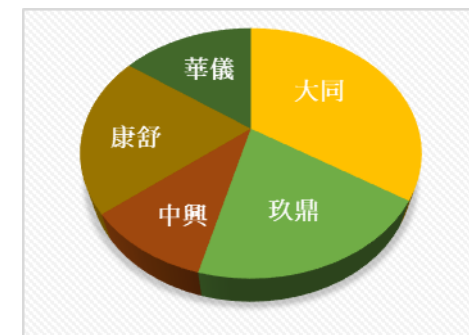
Operation Performance(Smart meter)

- ➔ IEC (European regulation) & ANSI(American regulation) are Internationally certified.
- ➔ Taipower Smart Meter :
 - ➔ Three types of smart meters have completed the Taipower certification and testing procedures, indeed obtained the qualification for selective bidding
 - ➔ Since 2018, a number of bids have been obtained, ,and the scale of the obtained bids has expanded year by year, reaching a cumulative total of over 2 million units.
 - ➔ During March to November 2022, we have obtained 1.1 million Taipower new modular smart meters with about USD 85.4 million of total five bids, with a market share of 20.08% for single-phase (household) meters and 20.35% for three-phase (commercial) meters
 - ➔ In March 2025, we obtained Taipower' s new modular smart meter tender for 900K units with total of approximately USD 61.3 million, with a market share of 27.27%. Taipower will additionally purchase up to 50% more under the original contract (about USD 30.7million).

Year	Number of Taipower Smart Meters
2018	7K
2019	37K
2021	137K
2022	210K
2022(fiscal year)	700K+additional purchase 200K units
2025(fiscal year)	900K+additional 450K units



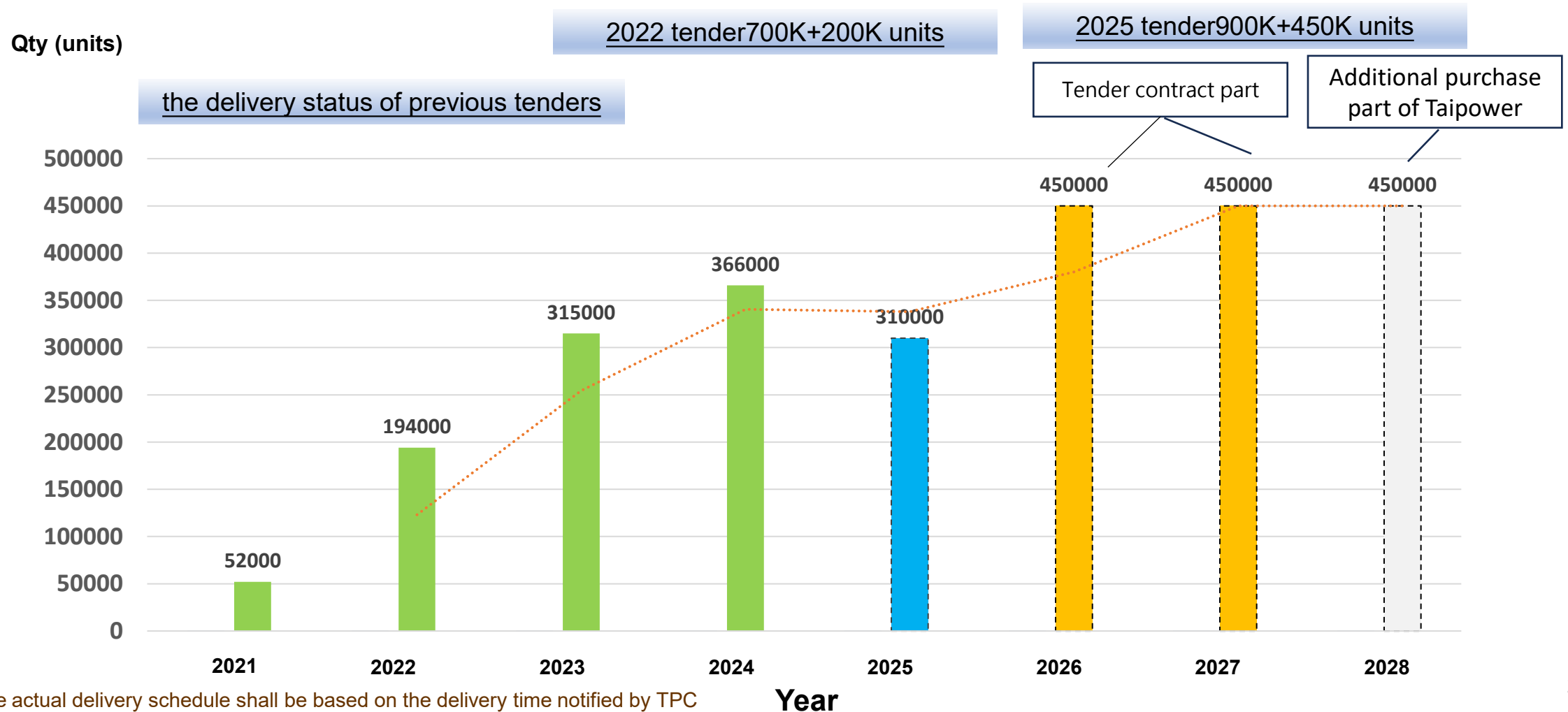
Three phase energy meter market share



Single phase energy meter market share

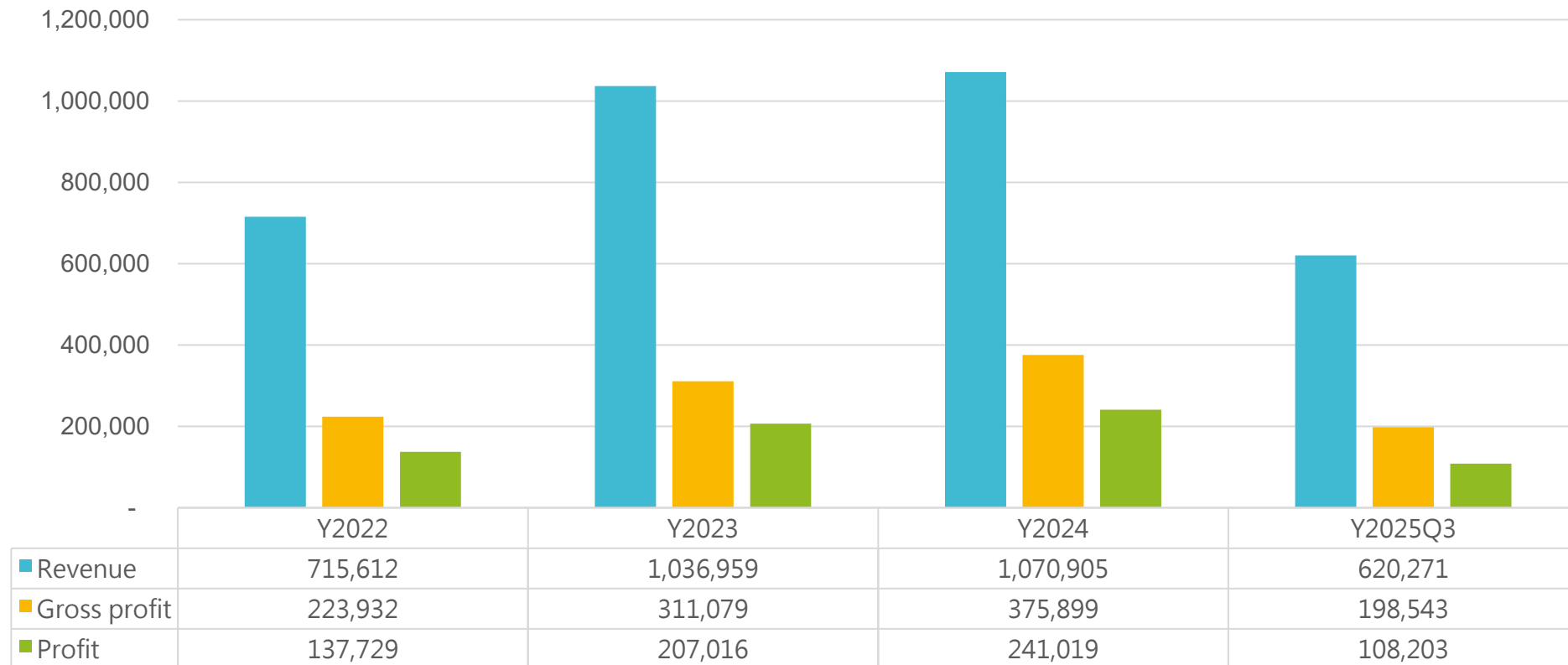
Taipower smart meter tender and delivery schedule

- Taipower's recent smart meter tenders mostly span multiple fiscal years. Each tender is delivered in batches, and revenue is recognized in phases accordingly.



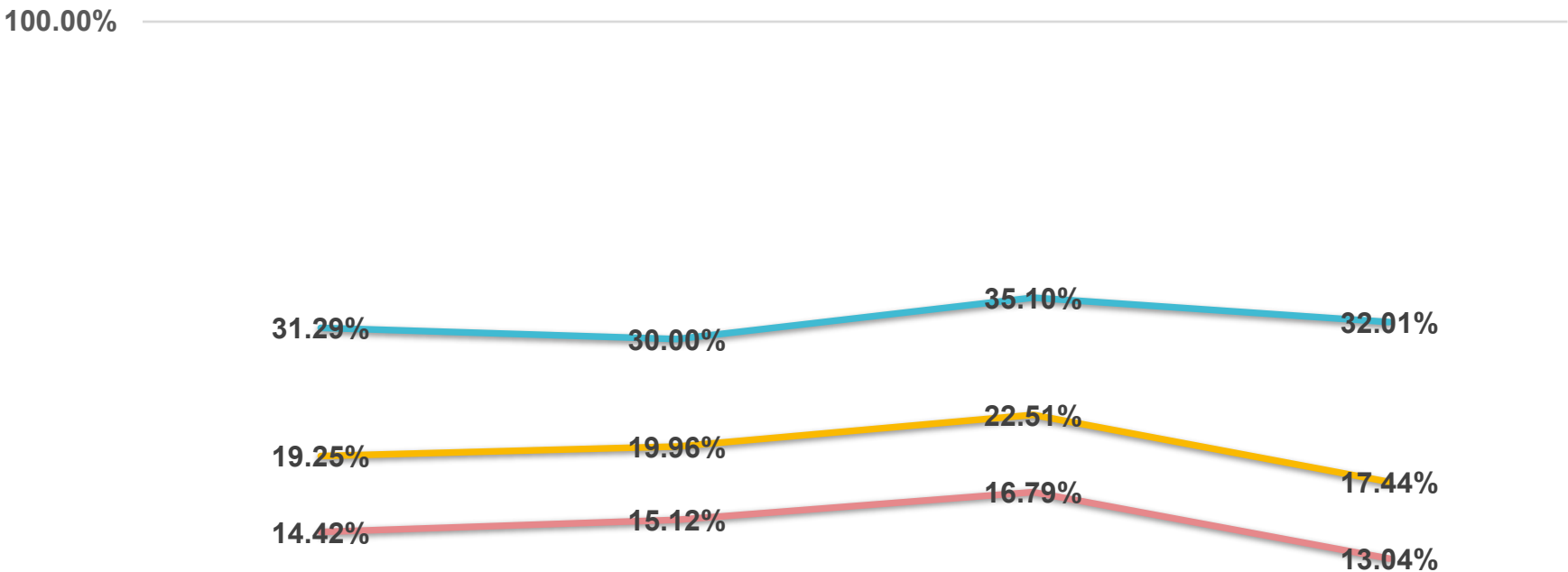
2022-2025/9/30Q3 Revenue 、Gross profit 、Profit

(NTD thousands)



■ Revenue ■ Gross profit ■ Profit

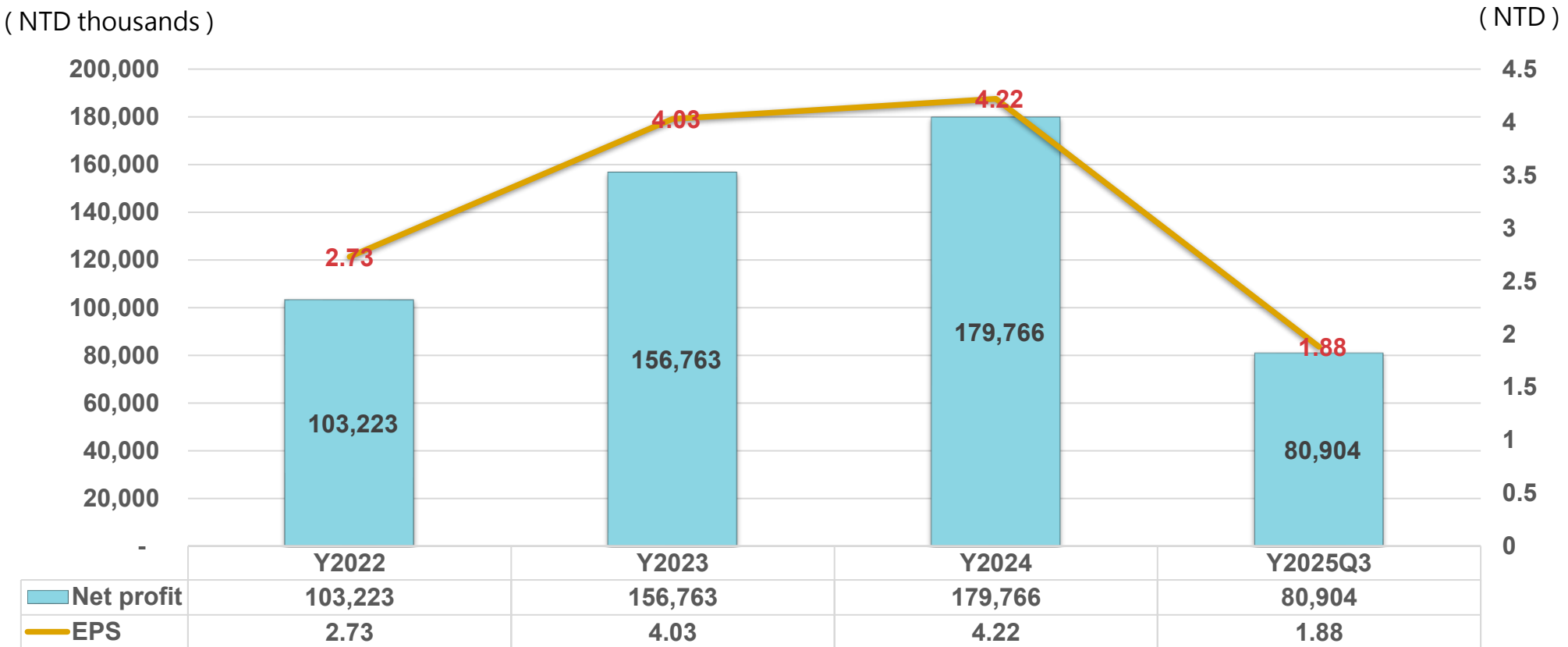
2022-2025/9/30 Gross Profit Margin 、 Operating Profit Margin 、 Net Profit Margin



	Y2022	Y2023	Y2024	Y2025Q3
Gross Profit Margin	31.29%	30.00%	35.10%	32.01%
Operating Profit Margin	19.25%	19.96%	22.51%	17.44%
Net Profit Margin (After Tax)	14.42%	15.12%	16.79%	13.04%

Gross Profit Margin Operating Profit Margin Net Profit Margin (After Tax)

2022-2025/9/30 Net profit 、EPS

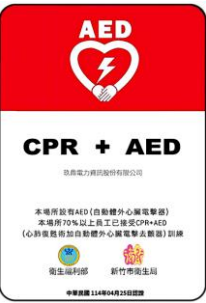


Net profit EPS

Business performance

(Sustainable development, Friendly workplace)

We are implementing corporate governance, emphasize energy conservation, carbon reduction, sustainable environmental development, care for employee rights, and fulfill its social responsibilities.
Our sustainable development has been recognized, and received awards in the past 2 years as shown below:



- Green Partner Recognition, 2024 – Ministry of the Environment
- Friendly Breastfeeding Room Excellence Award (Xiangshan Plant), 2024 – Hsinchu City Government. Certified in 2025 and continuously accredited.
- Outstanding Indigenous Employment Award (First Prize), 2024 – Council of Indigenous Peoples
- Green Procurement Excellence Award, 2024 – Hsinchu City Government
- Brilliant Second-Career Award (Middle-aged and Senior Group), 2024 – Ministry of Labor
- AED Safe Place Certification, 2025 – Hsinchu City
- Qualified in the 2025 Healthy Workplace Promotion Autonomous Evaluation – Ministry of Health and Welfare
- Outstanding Business Performance Companies (TOP 5000 Ranking), 2025 – Taiwan Business Credit Information Service
- Taiwan Best-in-Class Companies, 2025 – Taiwan Institute of Directors .
- Supply Chain ESG Sustainability Excellence Award, 2025 – Taipower



Production and Capacity

➔ Current plant :

- ➔ Hsinchu Science Park factory plant, with an area of 5,371 m² (Registration License : 95A00748)
- ➔ Hsinchu new plant: Xiangshan new plant, with an area of 11,901 m² (Registration License : 18000497)

➔ Capacity :

- ➔ Calibration and testing equipment are independently developed to improve production efficiency.
- ➔ Monthly production capacity for smart meters is approximately 80K units, while the monthly production capacity for power monitoring devices and energy management meters is approximately 10K units.
- ➔ Reserve one production line for oversea smart meter.
- ➔ The expansion of production lines at the Xiangshan plant has passed Taipower' s factory audit. The application for reviewing the production line transfer is currently in progress.

➔ Automated Production Line :

- ➔ Assisting a domestic testing institution in establishing the nation' s first automated smart meter inspection line with a daily capacity of 1,000 units. Expansion of the second and third production lines are in progress.
- ➔ Experience in automated production line design can serve as a reference for process optimization and also as a foundation for future turnkey smart meter plant exports.



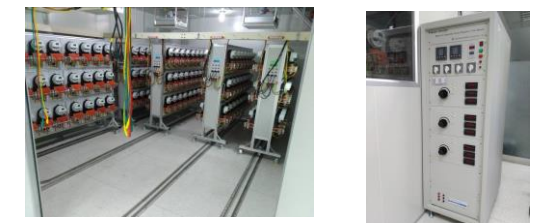
Xiangshan new plant



smart meter inspection equipment



Insulation withstand voltage testing device



Burn-in equipment

Future development plans(core fields)

➔ Smart Meter:

- ➔ Continuing optimizing production line and boosting Taipower' s annual delivery number from 330K units (2023-2025) to 450K units (2026-2028)
- ➔ Collaboration with targeted East Asia market and confirmed priority model development and its developing schedule. Currently at prototype phase. Certification is scheduled in 2026, tender participation in 2027.
- ➔ In collaborating with domestic communication suppliers in promoting to other foreign markets.

➔ Power Monitoring and Energy Management:

- ➔ Driven by strong demand from ESG, we will strengthen cooperation with domestic system vendors to jointly promote and ensure that power monitoring and energy management products achieve double-digit sales growth every year.
- ➔ Development of high-end power monitoring panel meter, expansion of product line that is provided with Transient power quality measurement, fast frequency response, IEC61850 communication, application to storage system, new automated power distribution system,.

Future development plans(Derivative products)

➡ Electricity Value-Added Customer Service

- ➡ The NIALM sensor extracts transient characteristic (home appliance fingerprints), combined with a cloud-based AI recognition system, achieved a recognition rate of over 80% for the operation of major home appliances among 10 test users, comparable to Tokyo Electric Power Company. It is expected that the number of test users will be expanded in 2026 with partners, and commercial promotion will begin in 2027.

➡ EV charging supporting products

- ➡ Mass production of “power measuring and leakage detection module” in the application of AC charging piles as well as 2 models of DC meter in application of DC fast EV charging station.

➡ Other derivative products

- ➡ Collaborating with partner in “Power distribution transformer power measurement and wireless communication module” in application of distribution automation system and commercial transformer status and its life monitoring, leading in batch production in 2026.
- ➡ Development of multi-line integrated system of “smart meter inspection automation product line” in application of smart meter auto inspection and Arch Meter’ s future turnkey smart meter plant output.
- ➡ Planning of power measurement related products at datacenter application.

