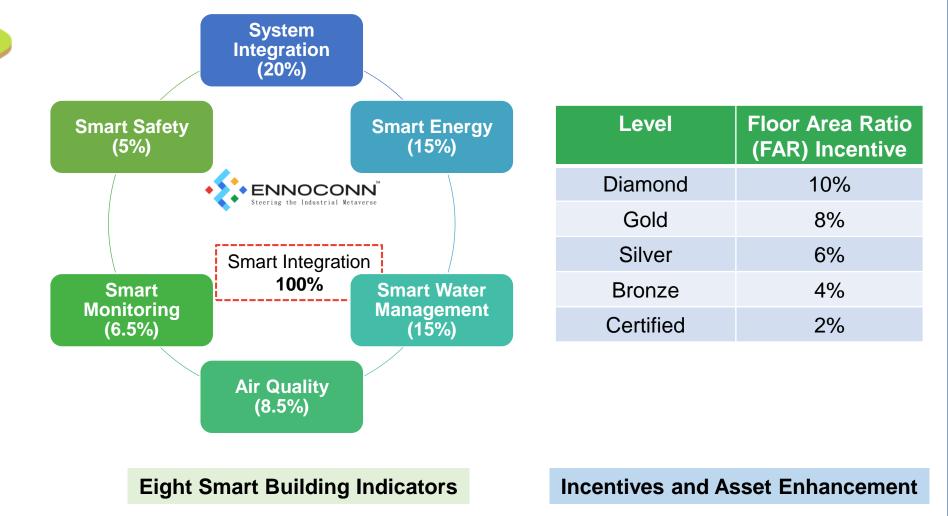


Ennoconn Corporation Al Smart Building Solutions

December 9th, 2024

Integrates IoT systems for automation, management, and optimization of building performance. Offers seamless services with minimal resource consumption, enhancing environmental friendliness.

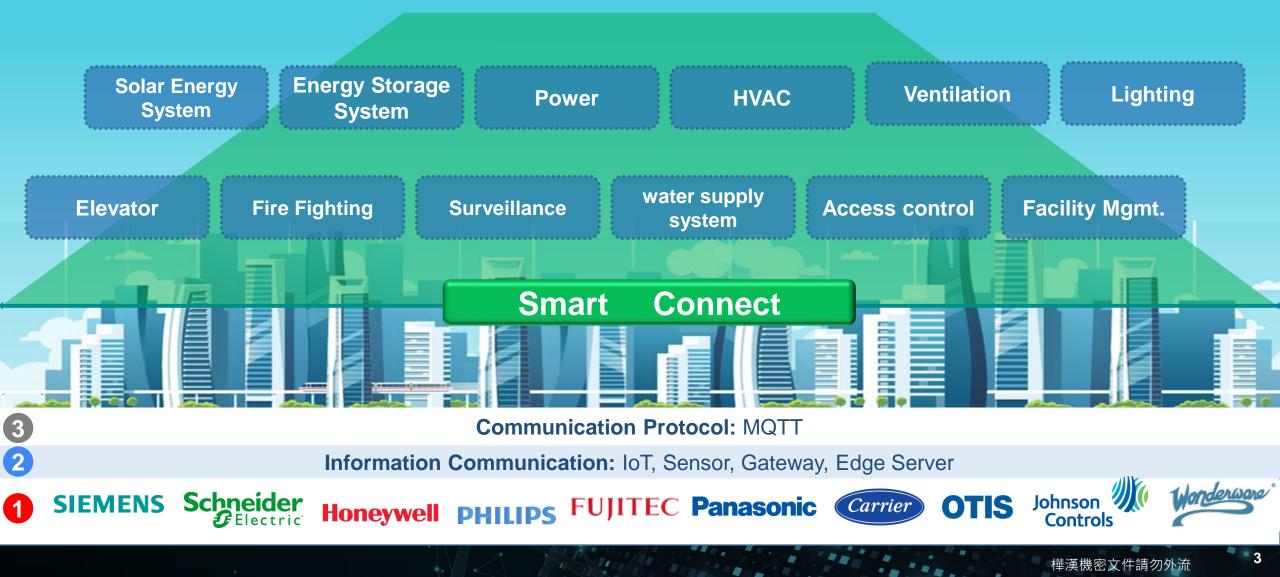
Smart Building Platform



12 Smart interoperable Systems



EMS Monitor & Control Central



Smart Building Integration System



1	2	3	4	5	6	7
POWER INTEGRATION & MONITORING	HVAC INTEGRATION & MONITORING	LIGHTING INTEGRATION & MONITORING	PLUMBING INTEGRATION & MONITORING	ENVIRONMENTAL INFORMATION INTEGRATION & MONITORING	RENEWABLE ENERGY INTEGRATION & MONITORING	POWER SYSTEMS INTEGRATION & MONITORING
 SMART METER DISTRIBUTION PANEL GENERATOR ELECTRIC VEHICLE CHARGING STATION 	 CHILLER SYSTEM AIR CONDITIONING VENTILATION SYSTEM AIR CONDITIONING PUMP SYSTEM HOT WATER SYSTEM VENTILATION SYSTEM 	 TWO-WIRE LIGHTING SMART LIGHTING FIXTURES SMART STREET LIGHTS 	 SUMP PUMP PRESSURE PUMP WASTEWATER PUMP STORM WATER PUMP 	 TEMPERATURE & HUMIDITY ILLUMINANCE CO CO2 PM2.5 	 SOLAR INVERTER WIND POWER GENERATION ENERGY STORAGE SYSTEM 	 ELEVATOR FAN

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Digital Twin

According to ISO 30173, a digital twin is the connection between a real building and a digital simulation platform, creating an accurate digital replica of the building.



In addition to ISO 30173, Ennoconn digital twin technology uses the IEA-certified building environment and energy consumption simulator. It follows ASHRAE 90.1 standards for energy simulation, predicting building behavior. With on-site sensors, the "living digital twin" provides data to train AI models, evolving with the building towards near-zero energy.

Success Case: Al Digital Twins for Building Operation Conn

(TSMC F12P7 Plant)

{ Hualien Tzu Chi Hospital }

〈Taipei Far Eastern Telecom Park〉 Google Office



Control facility : AHU

- Integrated Honeywell HVAC system & directly control AHUs.
- Energy Saving 6%
- Deploy Al only take 7 days.
- The cost only 1/4 of the original AI implementation.
- Intelligent Living Space Design Competition Gold Award



Control facility : AHU

- Integrated Honeywell HVAC system and directly control AHUs.
- Energy Saving 9.8%



Control facility : FCU

- Integrated Siemens HVAC system and directly control FCUs.
- Energy Saving 10%
- Through AI to control 1042 FCUs every 15 mins.

Digital Twin - Al Application Achievements

- Air Conditioning Energy Savings on the Air Side (Foxconn Tiger Leap Factory 4F)
 - Digital Twin Al Automatic Control
 - Estimated energy efficiency improvement of approximately 8%

- Period: From September 2024
- Al digital twin model dynamically adjusts the air conditioning system based on plant operations.

- Air Conditioning Water-side Energy Saving (Entire Area)
 - ✓ Optimizing the Water-side System
 - Energy Efficiency Savings -12.45% (2024/05~11)
 - Energy Savings: 294,152 kWh (2024/05~11)

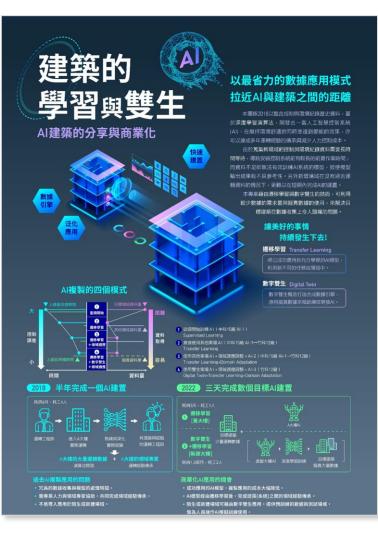
Period : 2024/05~2024/11

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Award-Winning Case

陸市市日本 樺漢科技 Solutions For Smart Future

MOI Intelligent Living Space Design Competition



2022 National First Place

Client: TSMC





作品名稱:建築的學習與雙生





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Ennoconn Optimizing Product Portfolio & Profitability Q1 2024 Gross Margin 20.1% YoY +0.8ppt.

		Q1	2023		Q1 2024	Currency: NTD
Gross Margin	Portfolio	Revenue	Proportion	Revenue	Proportion	Increase/ Decrease
1 10% ~ 25%	IIOT + SI	16.1B	57%	16.6B	51%	-6%
2 25% ~ 35%	IIOT + AI	9.9B	34%	12.2B	37%	+3%
3 > 35%	AIOT + CLOUD	2.5B	9%	3.9 B	12%	+3%
	CONSOLIDATED REVENUE	28.5B	100%	32.7B	100%	YoY +14.8%
	CONSOLIDATED GROSS PROFIT	5.5B	19.3%	6.6B	20.1%	YoY +0.8ppt.
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Ennoconn Q3 2024 Cloud + Edge Al Revenue 3.96B Revenue 3.96B Increase 790M YoY +24.9%



Unit: TWD

					2024Q2	2024Q3	QoQ
1 Cloud AI Computing			Products and Services	Group Revenue	Group Revenue	Group Revenue	
			Cloud AI + Edge AI	3.17B	3.96B	24.9%	
	\$ <u></u>						
		API COS	1	Cloud Al Computing	2024Q2	2024Q3	QoQ
				Products and Services	Revenue	Revenue	Revenue
Database	Application SW	App Interface		AI HW + SW + Service	1.48B	198M	31.1%



Edge AI Computing	2024Q2	2024Q3	YoY	
AI HW + SW + Service	Revenue	Revenue	Revenue	
AI Server	490M	590M	20.4%	
AI Workstation	820M	980M	19.5%	
AI Device	380M	450M	18.4%	
Total	1.69B	2.02B	19.5%	

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Thank you

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