



上海電力大學

SHANGHAI UNIVERSITY OF ELECTRIC POWER



Outbound Exchange Program Participation Report

2026 Shanghai Summer School: Intelligent Energy & Power Innovation

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The Learning & Development Journey (The Program Architecture)

Phase 1:
Exploration & Culture
(Jun 26 - 29)

Phase 2: Academic
Immersion & Tech
(Jun 30 - Jul 7)

Phase 3: Application
& Synthesis
(Jul 8 - 13)

Adaptation & Learning
Building the Linggang Culture
and the Opening Ceremony of the
New Campus Linggang

Study Visits to State Grid and
Huawei,
with Advanced AI Seminars
(Digital Twins, Embodied AI)

CESIM Power Simulation
Competition, Belt and Road
Speech,
and Project Conclusion



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JUN 26-27 — ARRIVAL & CULTURE



Departed from Suvarnabhumi Airport (BKK) on Spring Airlines flight 9C7286, arriving at Shanghai Pudong International Airport



Reception and Adaptation: Received a warm welcome and support from SUEP student volunteers, while beginning to learn about Chinese culture and the energy context



JUN 28-29 — OPENING CEREMONY



Official Opening Ceremony: Held in Meeting Room 301, Academic Building, Linggang Campus (SUEP Linggang Campus), together with international students from more than 10 countries.

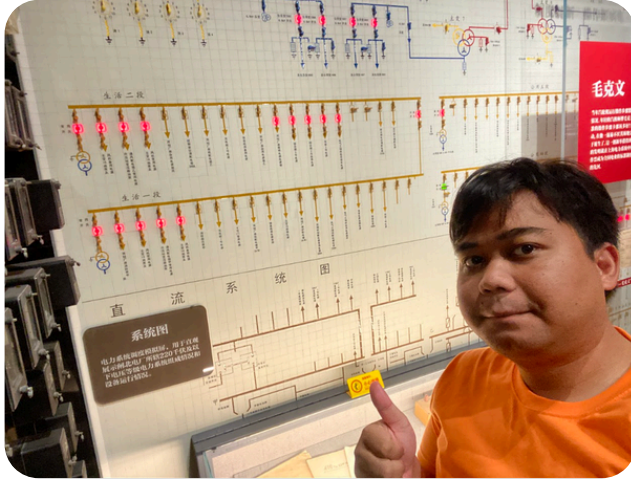


Visited the China Maritime Museum to gain an understanding of maritime history and China's maritime resource management, which form the foundation of its trade and energy sectors.



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State Grid Education Base

Study of the history and development of electric power management in Shanghai (Shanghai Electric Power Development)



International Data Port Infrastructure

Visited Lingang's International Data Port to study cross-border data infrastructure, security governance, and alignment with global digital trade frameworks.

JUL 2 — THE EXPERT
SYNTHESIS

Academic Insights: Artificial Intelligence in Modern Power Systems (The Expert Synthesis)

Digital Twins & Resiliency

Expert: Asst. Prof. Zahoor Ahmed
Building a Virtual Replica to detect vulnerabilities and improve Island Grid resilience

Embodied AI & Robotics

Expert: Prof. Jinya Su
Using LLMs with Machine Vision for Automated Solar Panel Inspection (Solar Defect Detection)

LLMs in Power Operations

Expert: Prof. Xi Chen
Leveraging LLMs for data-driven operational support & outage prediction in power systems

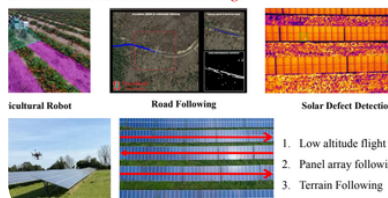
Manufacturing: (applications)

Improve the performance of industrial processes, predict needs, help in training.

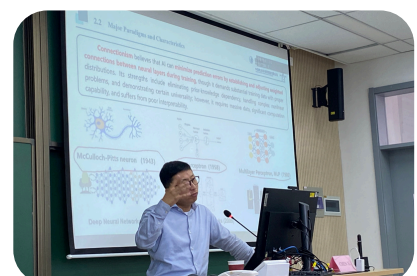


Aerial Applications: Solar Inspection

New Vision for Autonomous Aerial Flight



1. Low altitude flight
2. Panel array followin
3. Terrain Following

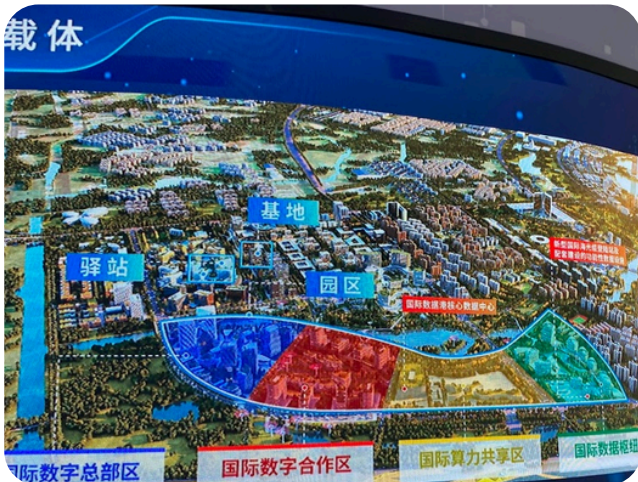




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JUL 2-4 — TECH TITANS & CULTURE



Examined the mega-scale tech infrastructure hub empowering leading digital enterprises through shared computing power, global data headquarters, and advanced connectivity.



Explored China's tech-driven academic culture, showcasing how industry giants deeply collaborate with top Shanghai universities to foster talent and innovation.

JUL 5-7 — FUTURE CITY BLUEPRINTS

AI Empowers Explored Shanghai's master scale model, discovering advanced architectural design, sustainable waterfront transformation, and visionary mega-city infrastructure planning.



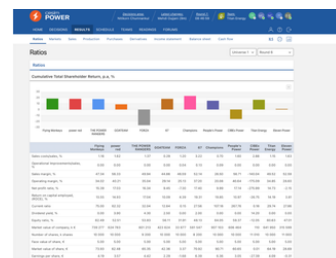
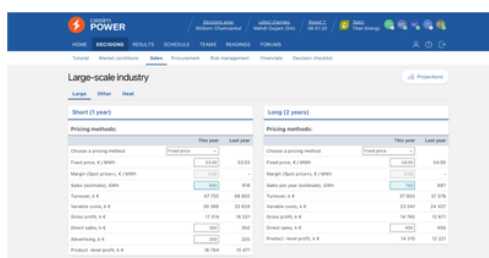
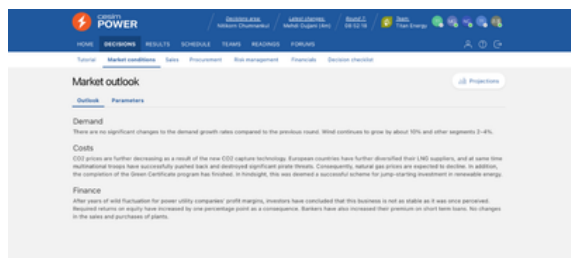
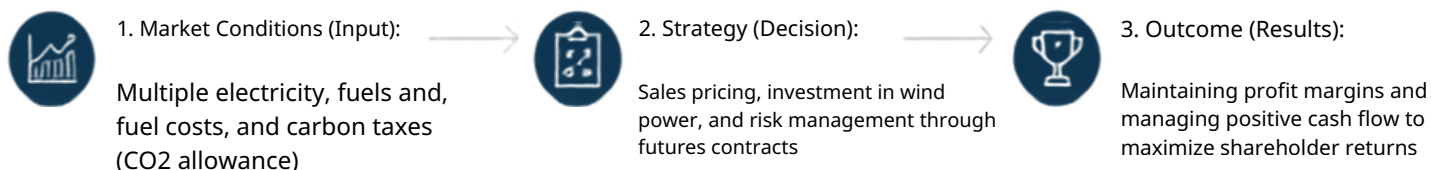
CONCLUSION

ahead, we have every reason to believe that in the great journey of development in the new era, Shanghai will create new wonders (impress the world and turn a new chapter in building a modern country!

——XI JINPING



Team 'Titan Energy' (together with students from France and participants of other nationalities)



"Green Energy, Global Synergy"



Impromptu speaking competition under the theme 'Green Energy, Global Synergy': AI-Powered Dual-Carbon' to present a cross-cultural vision for clean energy.



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Reflection



"Hello, my name is Nitikorn, and I am from Thailand. I was really impressed by the volunteer staff who took care of us when we arrived in Shanghai. The campus is a beautiful place that really opened my perspective. Thank you to the Shanghai Summer School for allowing us to connect with friends from around the world!"