
Asia-Pacific
Economic Cooperation
機電工程署 EMSD
1st Joint Meeting
of Four Expert Groups of
the APEC Energy Working Group
Hong Kong, China
9 - 11 April 2025
Mr Raymond POON
Director of Electrical and Mechanical Services

EMSD Efforts

APEC

APEC Meetings & Leadership by Hong Kong, China

APEC Meetings

2018	55th Energy Working Group (EWG55)
2019	52nd Expert Group on New and Renewable Technologies (EGNRET52) 53rd Expert Group on Energy Efficiency & Conservation (EGEEC53)
2020	55th Expert Group on Energy Efficiency & Conservation (EGEEC55) 31st Expert Group on Energy Data and Analysis (EGEDA31)
2023	60th Expert Group on Energy Efficiency & Conservation (EGEEC60)
2024	35th Expert Group on Energy Data & Analysis (EGEDA35)

Leadership

Mr Barry CHU	EWG Deputy Lead Shepherd (2021-2025)
Mr Ek Chin VY	EGEEC Chair (2019 – 2023)
Ms Jovian CHEUNG	EGEEC Vice-chair (2023-2025)

APEC Projects by Hong Kong, China

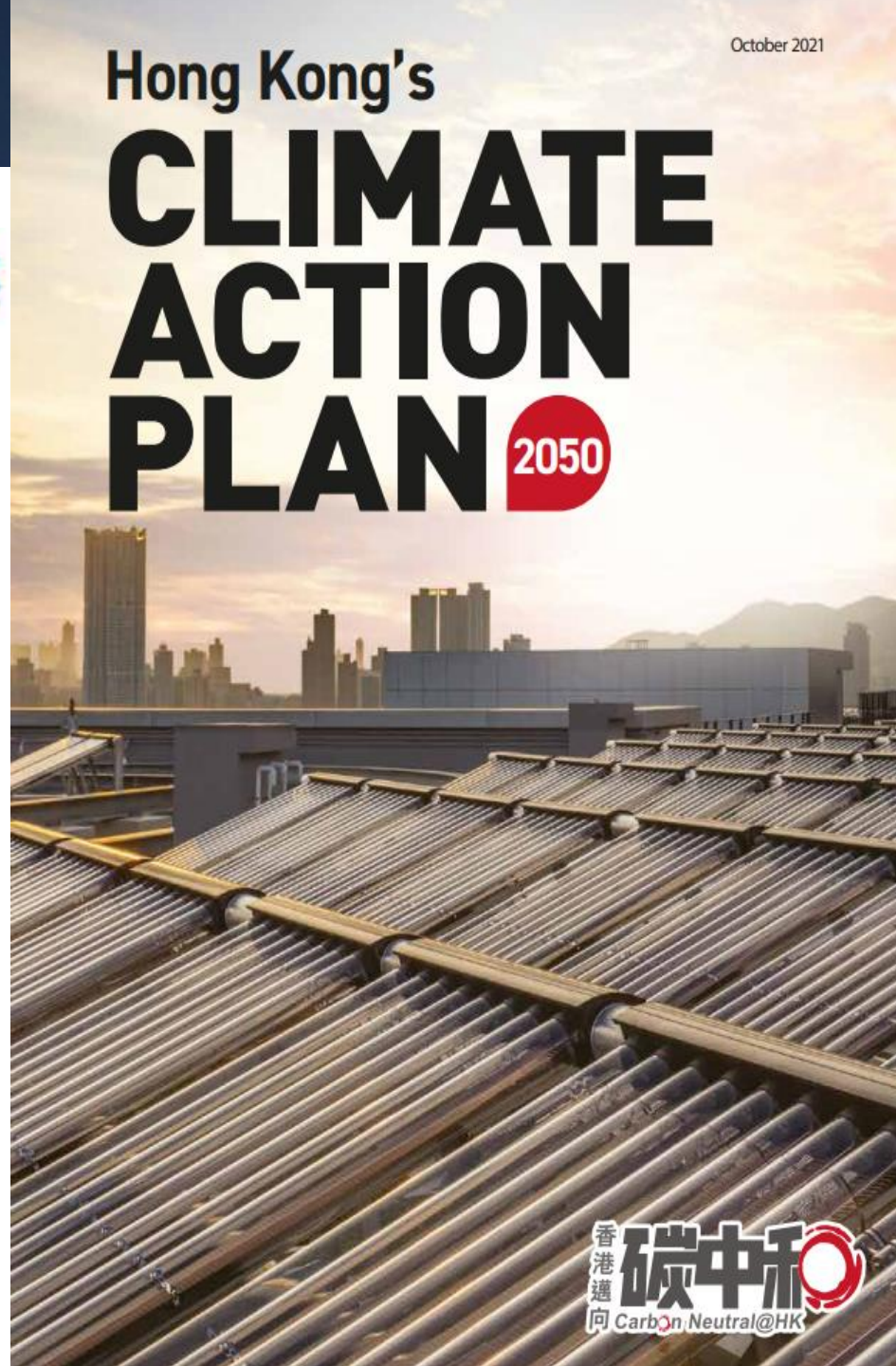
Completed Projects

EWG 08 2019S	APEC Workshop on District Cooling and/or Heating Systems (DCHS)
EWG 08 2019A	Energy Intensity Reduction in the APEC Regions' Urbanised Cities
EWG 09 2020A	APEC Capacity Building Workshop on Retro-Commissioning (RCx)
EWG 08 2021S	Capacity Building Workshop on APEC's Goals of Doubling the Renewable Energy Share in the Energy Mix and Reducing Energy Intensity
EWG 05 2021A	Promoting Energy Efficient and Resilient Data Centres in the APEC Region
EWG 05 2022A	Promoting Energy Modelling in APEC Region
EWG 07 2022A	APEC Retro-Commissioning (RCx) Hub: Training and Registration Scheme
EWG 01 2023A	Promoting Digital Solar Resource Maps and Management Technologies in Advancing Renewables Growth in APEC

Projects In Progress

Promoting Energy Efficiency Enhancement in Electricity Generation	EWG 221 2023A
Hydrogen for Land Transport Development Pathways and Challenges	EWG 107 2024

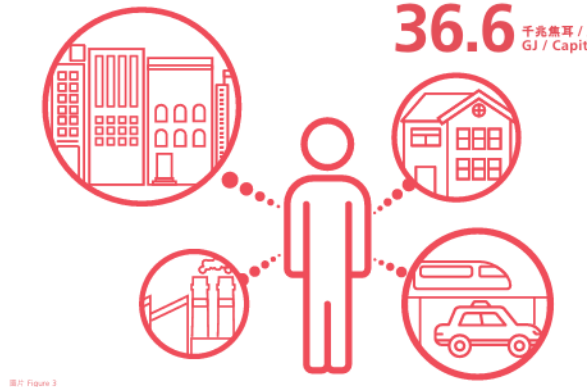
Combat Climate Change



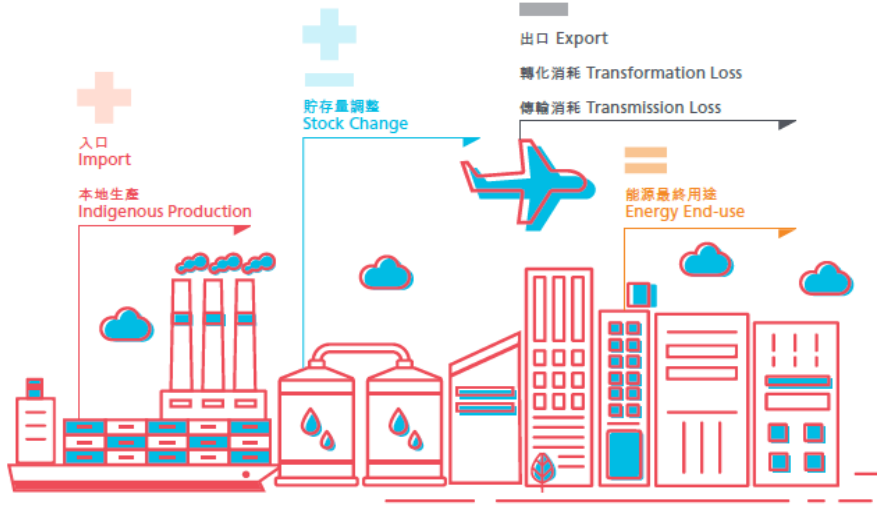
Energy Data and Analysis – Energy End-use Database

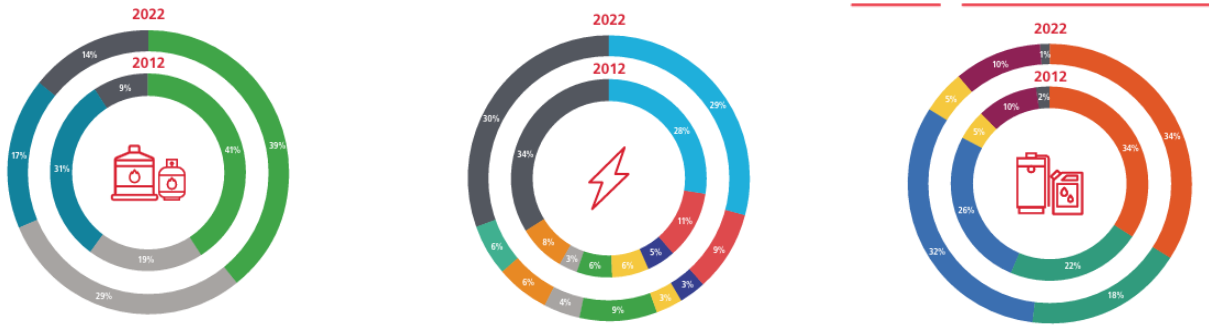
香港能源最終用途數據
Hong Kong
Energy End-use Data
2024

機電工程署 EMSD



圖片 Figure 3
人均所用能源
Energy Consumption Per Capita



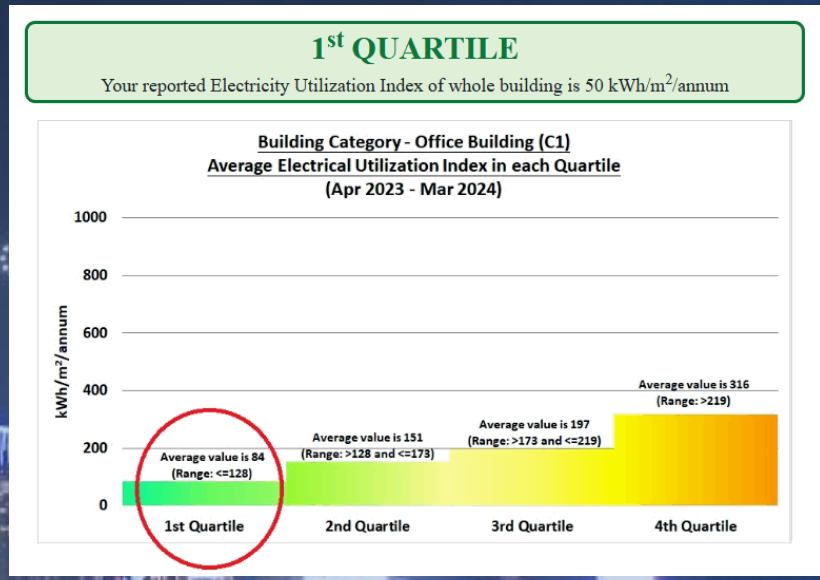


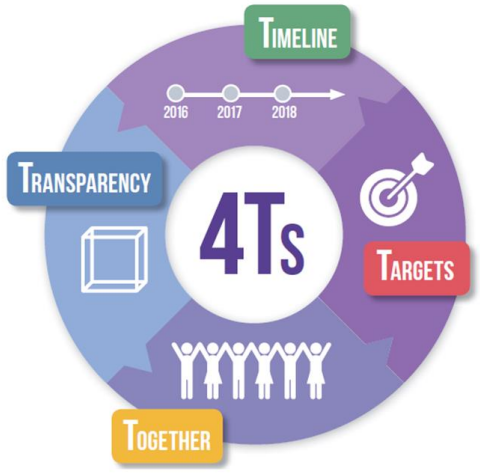
Total Energy Consumption by Fuel & by Sector

參考表格 Refer Table 2, 8, 9, 10

Energy Data and Analysis

– Energy Consumption Indicators and Benchmarking Tool





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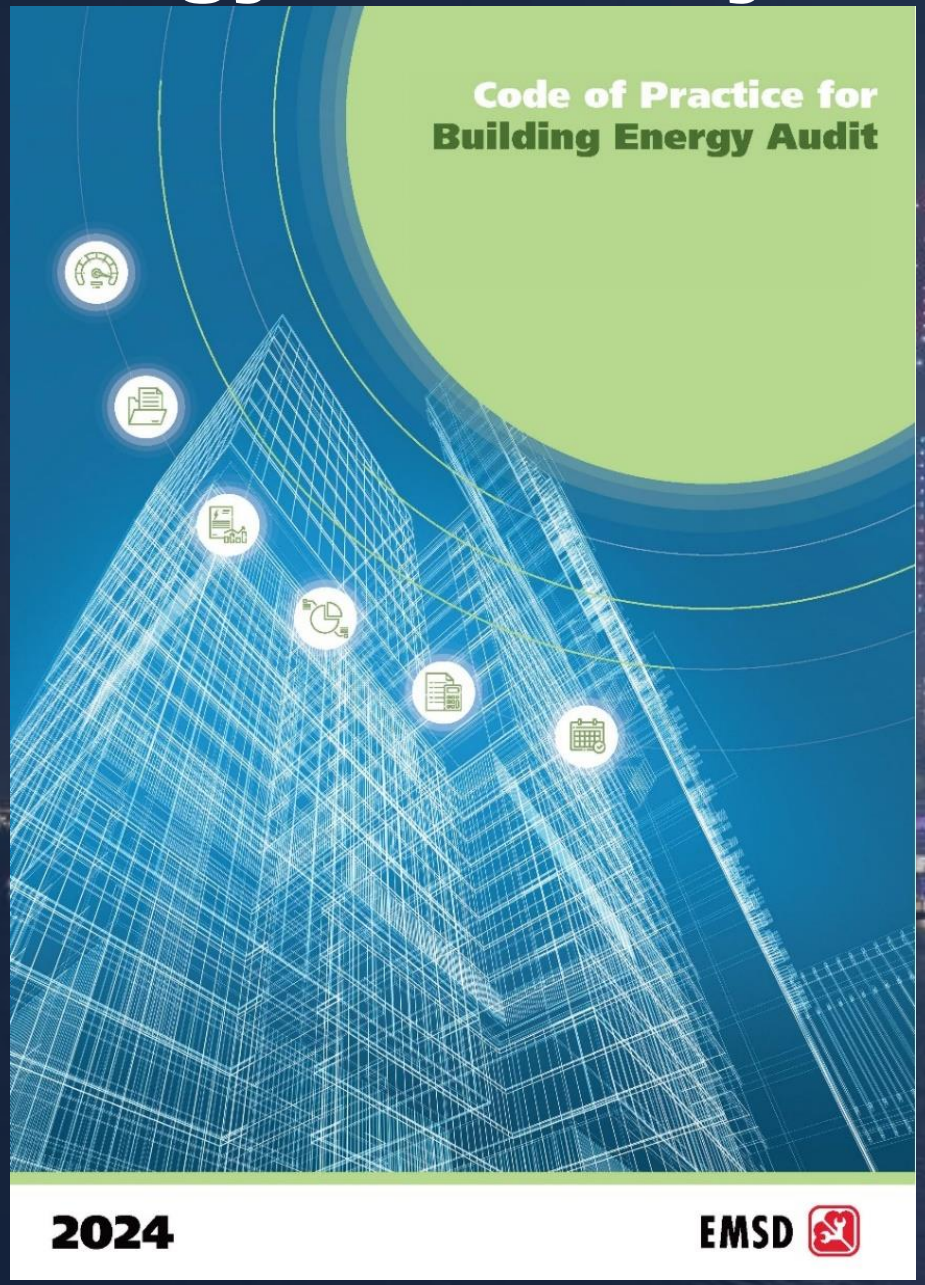
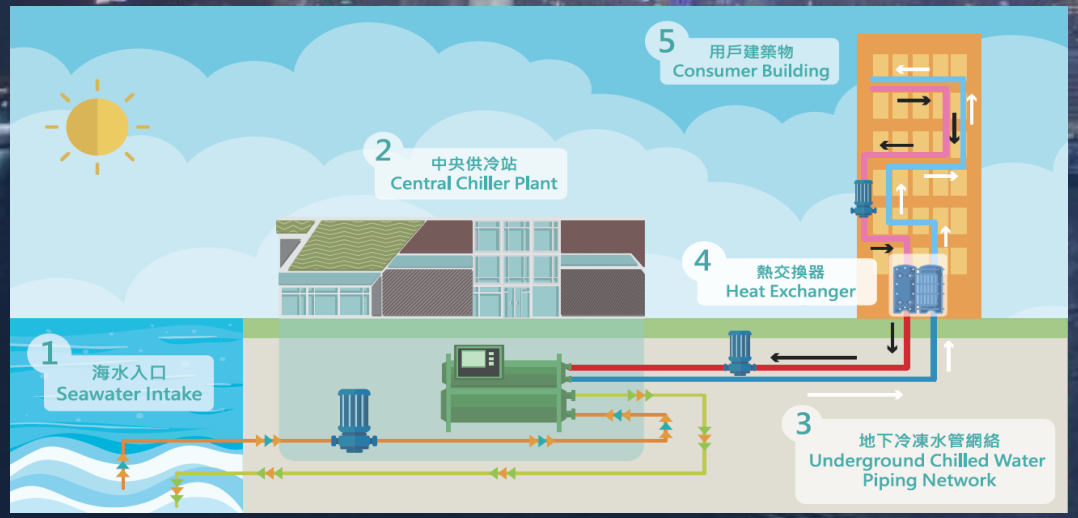
SUBSCRIBED

Energy Efficiency and Conservation – Energy Audit

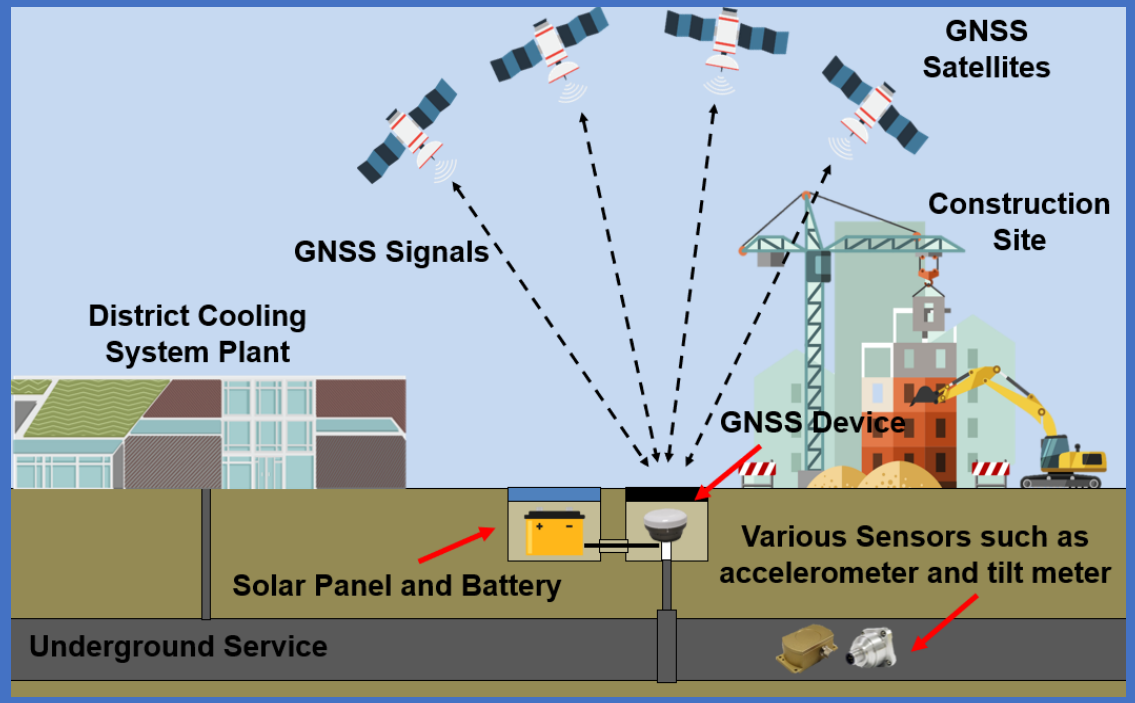


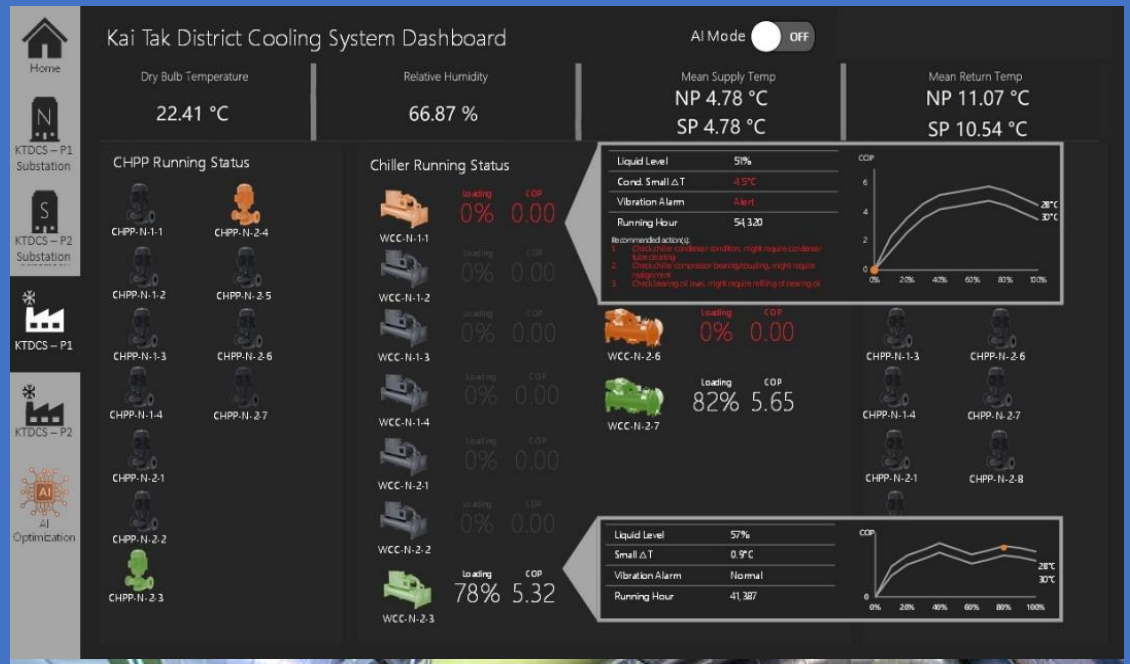
Energy Efficiency and Conservation

– Intelligent & Sustainable District Cooling System

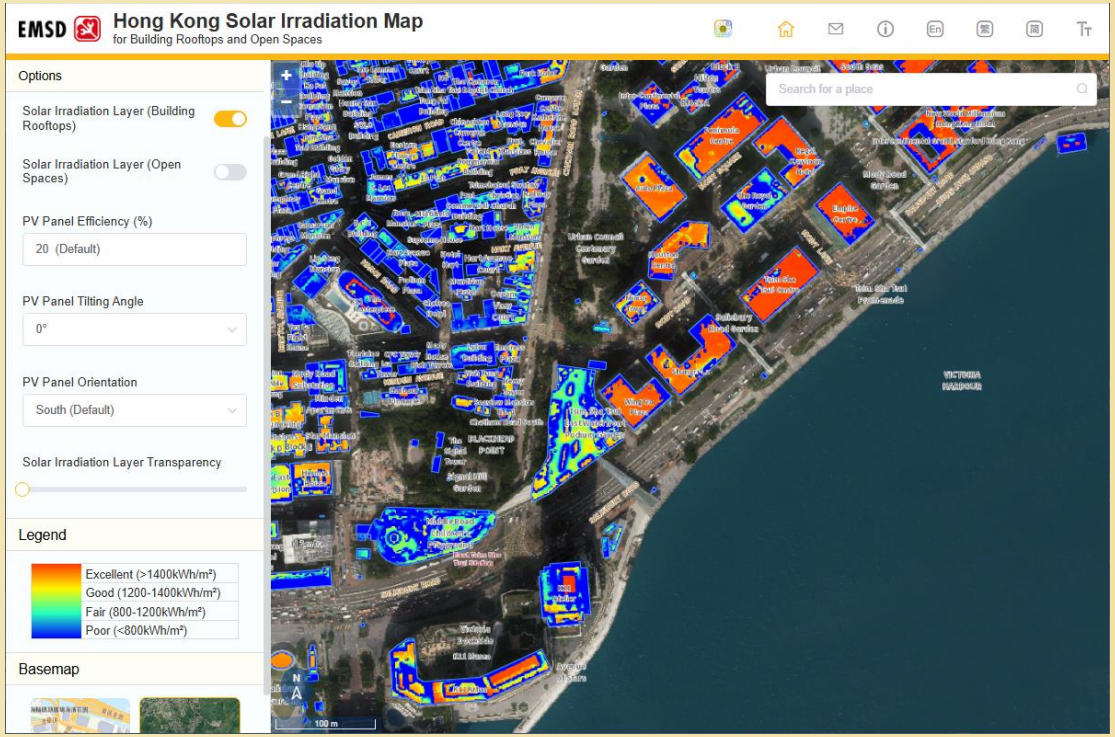


Energy Efficiency and Conservation
– Intelligent & Sustainable District Cooling System





New and Renewable Energy Technology
– Hong Kong Solar Irradiation Map



香港太陽輻照圖
Hong Kong Solar Irradiation Map

可再生能源探索者
Integrated Self-sustained Renewable-Energy Explorer (iSEE)

New and Renewable Energy Technology
– Waste-to-Energy

Waste Reduction

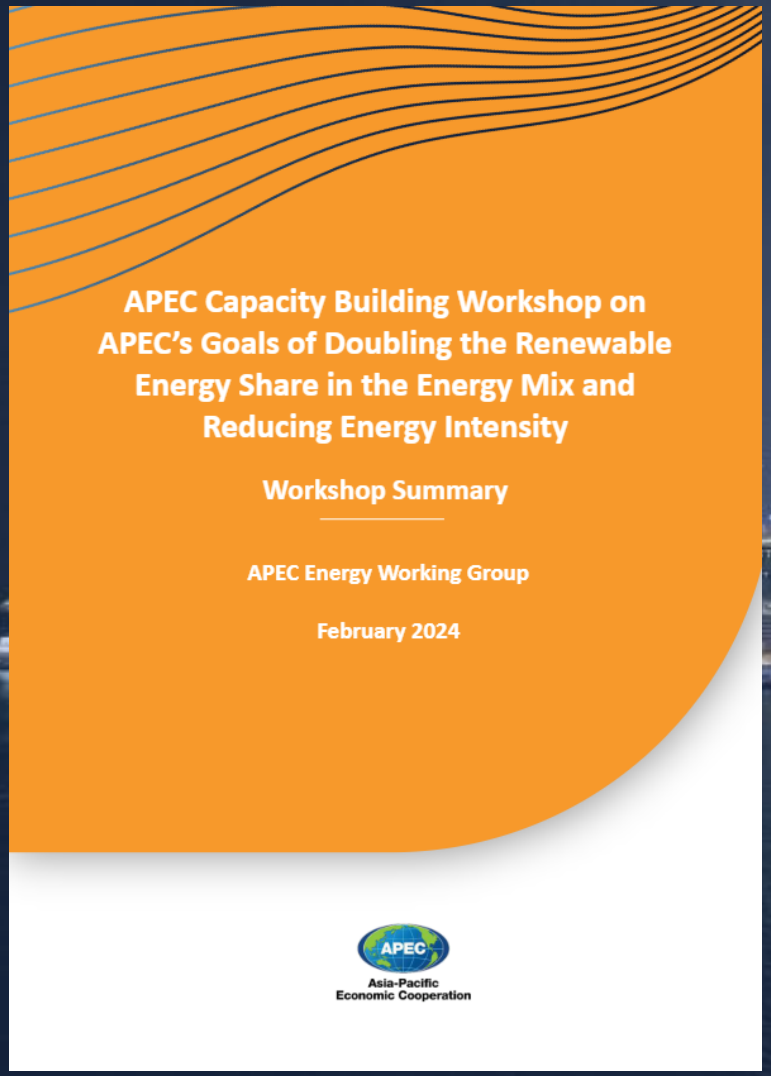
Waste-to-Energy Facilities

New and Renewable Energy Technology
– Waste-to-Energy

I•PARK 1
@ Shek Kwu Chau
Will commence operation in 2025

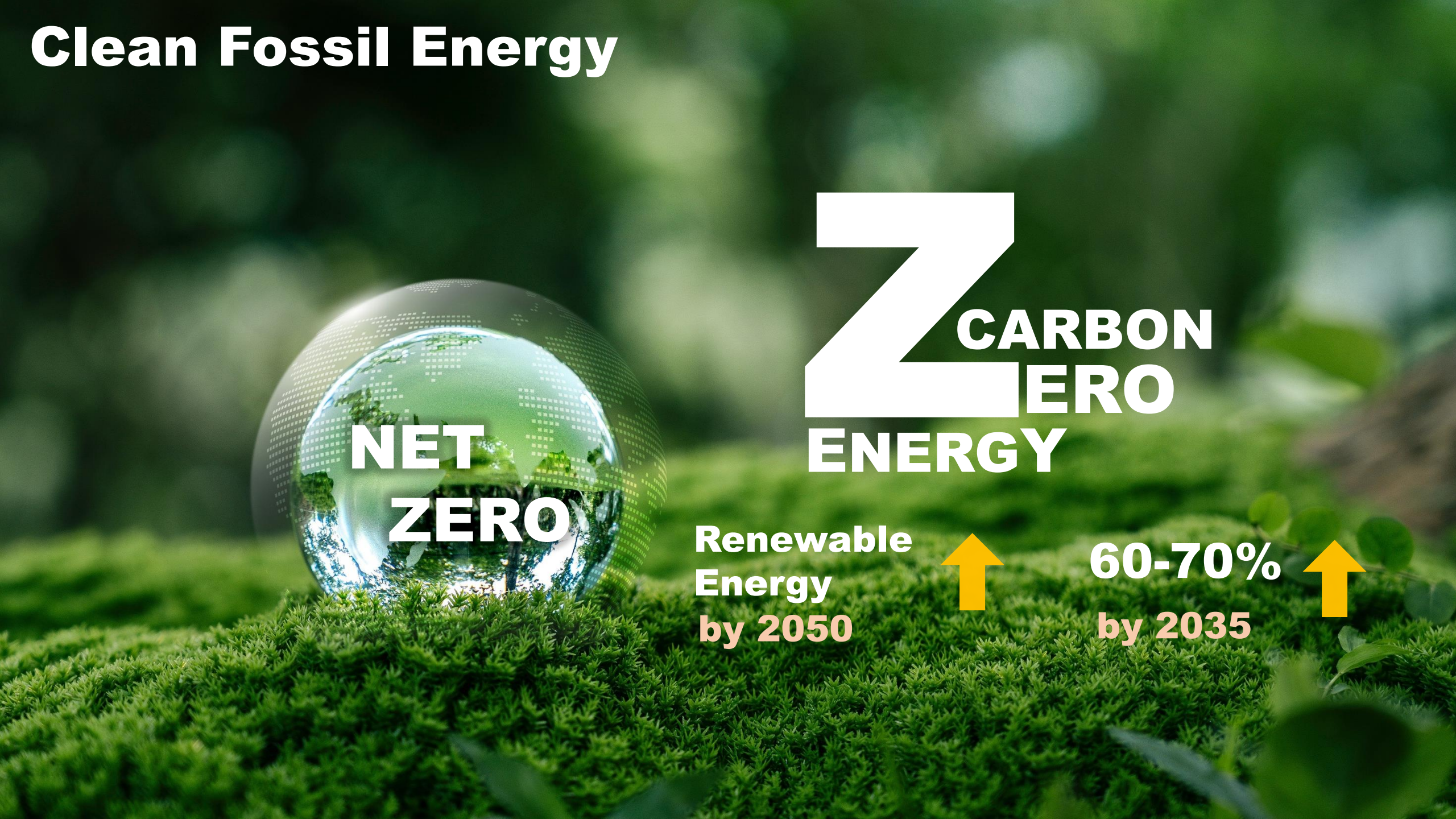
New and Renewable Energy Technology – APEC Projects

Capacity Building Workshop on APEC's Goals of Doubling the Renewable Energy Share in the Energy Mix and Reducing Energy Intensity (EWG 08 2021S)



Promoting Digital Solar Resources Maps and Management Technologies in Advancing Renewables Growth in APEC (EWG 01 2023A)

Clean Fossil Energy

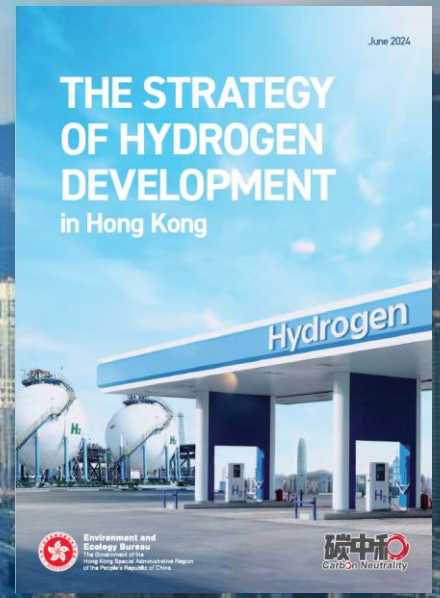


Clean Fossil Energy

H_2 Development

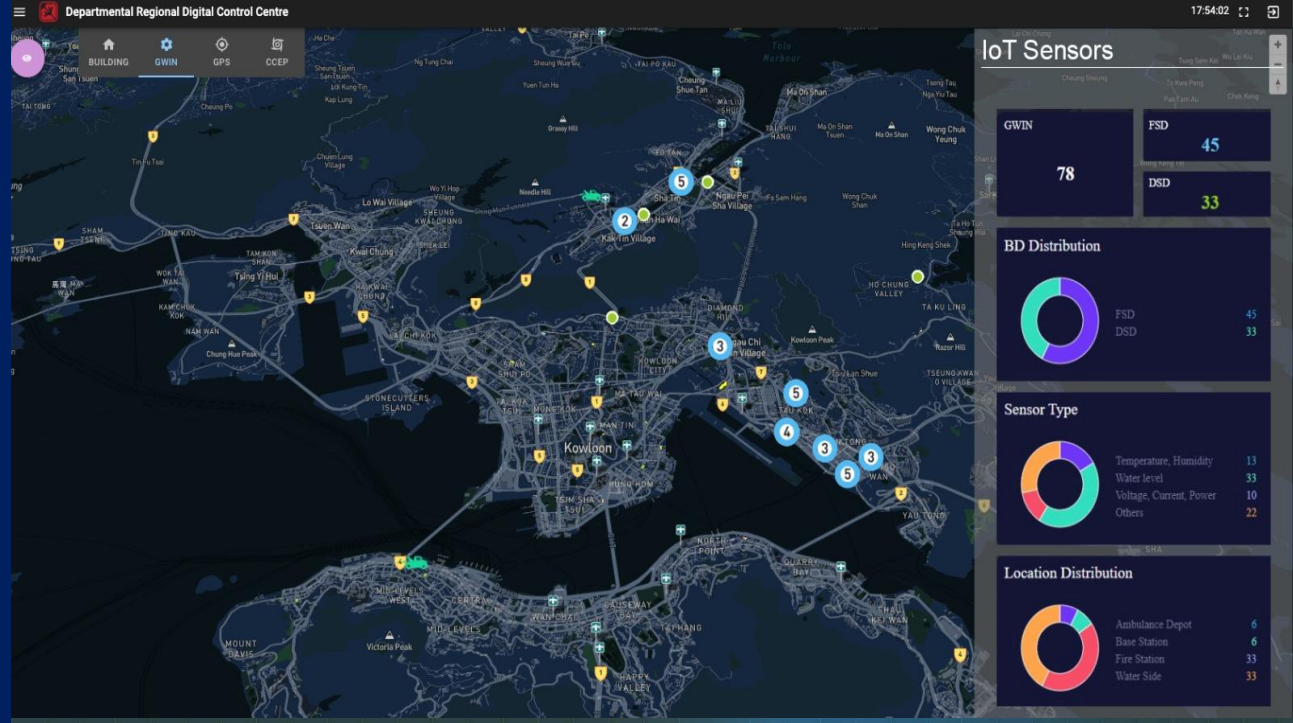
Legislative Amendments for Hydrogen

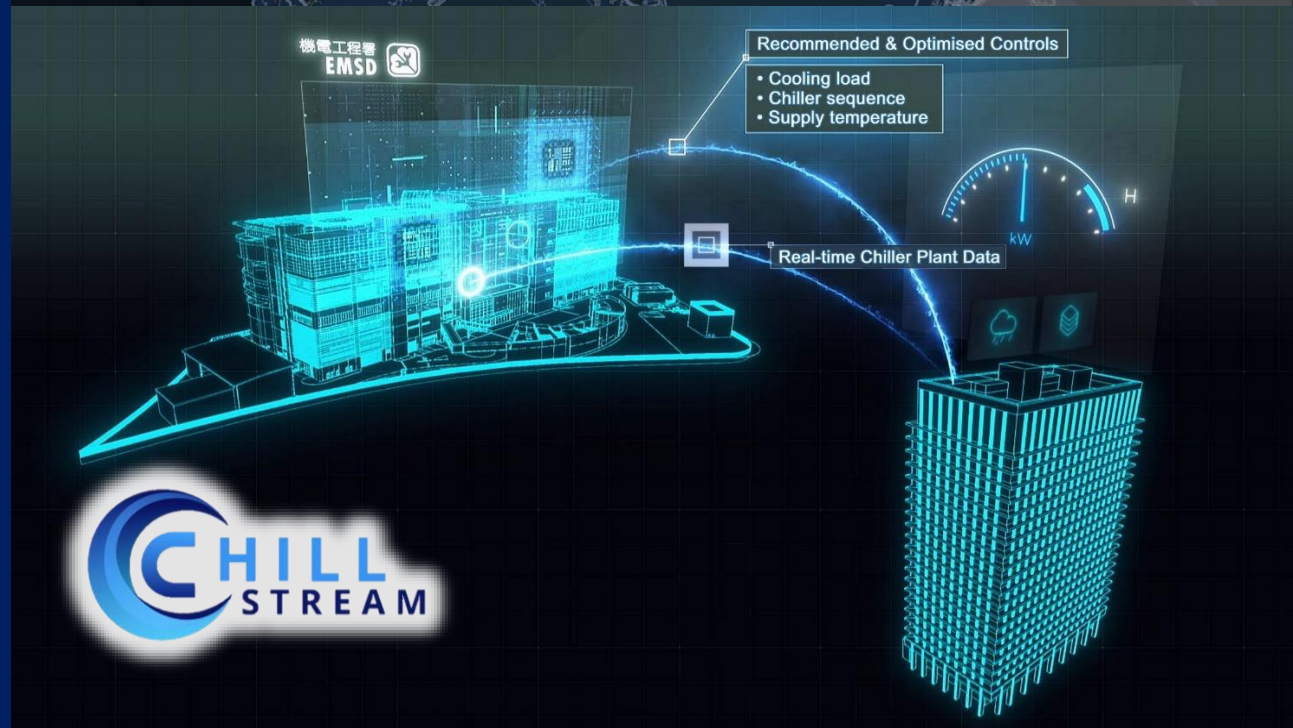
Green Hydrogen Certification System



“None of these systems can run the same way they do today and the cost to implement is prohibitively high”

Prof. Desiree Plata, Civil and Environmental Engineering of MIT





EMSD
E&M AI LAB

EMSD 開發人工智能代理

Engentica

The first AI Agent for E&M Industry
首個機電行業人工智能代理

國際建築機電

人工智能大挑戰

Global AI Challenge

For Building E&M Facilities

2025


HONGKONG
香港邁向
碳中和
Carbon Neutral@HK
Thank You!