10 March 2026

CLP Power and CityUHK Sign an MoU to Advance Metal 3D Printing Applications in the Power Industry

CLP Power Hong Kong Limited (CLP Power) and the Hong Kong Branch of National Precious Metals Material Engineering Research Center (NPMM) at City University of Hong Kong (CityUHK) signed a Memorandum of Understanding (MoU) to promote the application of metal 3D printing technology in power generation equipment components. By combining CLP Power's expertise in power engineering with CityUHK's strengths in precious metal materials research, the collaboration aims to enhance the durability and usability of the components while fostering innovation in advanced technologies.

To ensure the safe and reliable operation of power generation units, CLP Power engineering teams conduct regular maintenance, including renewal of components as needed. In some cases, where original equipment manufacturer parts are not readily available, CLP Power has used 3D printing technology to produce the required components. This provides flexible support for maintenance and enhances operational efficiency and cost effectiveness.

Under the MoU framework, CLP Power and CityUHK will strengthen technical exchanges to identify suitable applications of metal 3D printing technology in power stations. The collaboration will assess the feasibility of adopting new metal materials and advanced printing technologies to enhance the performance, durability and reliability of metal-printed components, with a view to extending lifespans, optimising maintenance strategies, and strengthening the reliability and resilience of power generation system.

CLP Power Senior Director of Generation Mr Kevin Lau said, "CLP Power is pleased to collaborate with CityUHK, combining our expertise in power engineering with their advanced research in precious metal materials to drive the application of metal 3D printing in the power industry. This partnership aims to develop innovative and efficient maintenance solutions for power generation, enhancing the flexibility of spare parts supply and improving component performance, which will further

strengthen the stability and reliability of our power generation system. CLP Power continues to adopt innovative technologies to optimise power station operations and asset management. We are confident that this collaboration with CityUHK will further enhance our operational efficiency and reinforce our commitment to providing world-class power services to Hong Kong."

Professor Anderson Shum Ho-cheung, Vice-President (Research) of CityUHK, said, "CityUHK is dedicated to research that has a real-world impact, and this partnership marks a significant milestone in our long-standing relationship with CLP Power. Our goal is to apply metal design and printing technologies to ensure that components of power generation equipment operate with greater stability, longer lifespans and significantly greater efficiency. I am confident that this collaboration will strengthen Hong Kong's position as a hub for engineering excellence and sustainable development."

About CLP Power Hong Kong Limited

CLP Power Hong Kong Limited (CLP Power) is the Hong Kong utility subsidiary wholly owned by CLP Holdings Limited, a company listed on the Hong Kong Stock Exchange and one of the largest investor-owned power businesses in Asia. CLP Power operates a vertically integrated electricity supply business in Hong Kong, and provides a highly reliable supply of electricity and excellent customer services to more than six million people in its supply area.

About City University of Hong Kong

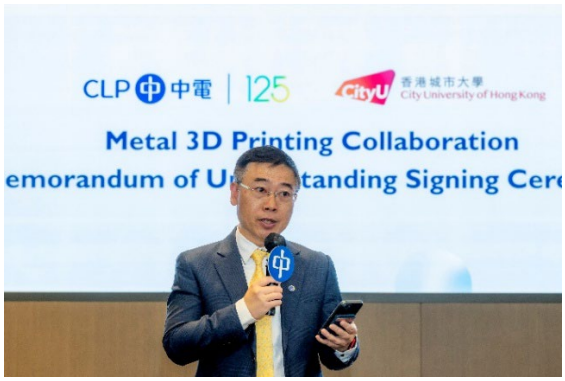
City University of Hong Kong (CityUHK), recognised as the Most International University in the World for 2024 and 2025, stands as a young, innovative, and leading global university dedicated to research excellence and professional education. We rank among the top 100 universities worldwide across major rankings and are placed within the top 10 in Asia. Rooted in Hong Kong and publicly funded, CityUHK provides a dynamic platform for global talents through 11 Colleges and Schools, supported by advanced research institutes spanning Artificial Intelligence (AI), biomedicine, computing, and material sciences, among others.

Photo Captions:

Photo 1

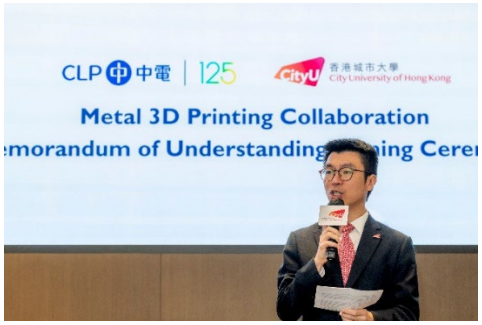
The MoU was witnessed by Mr Kevin Lau, CLP Power Senior Director of Generation (back row, left), and Professor Anderson Shum, Vice-President (Research) of CityUHK (back row, right); and was signed by Mr Ng Ki On, CLP Power Director of Generation Engineering (front row, left), and Professor Lu Jian, Dean of the College of Engineering and Director of the NPMM of CityUHK (front row, right).

Photo 2



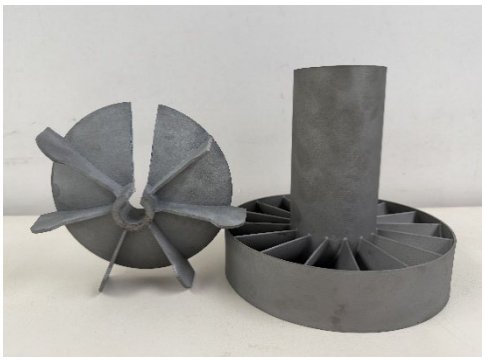
CLP Power Senior Director of Generation Mr Kevin Lau says the partnership will combine CLP Power's expertise in power engineering with CityUHK's strengths in precious metal materials research to advance the application of metal 3D printing technology in the power industry and support more innovative and efficient maintenance solutions for power generation.

Photo 3



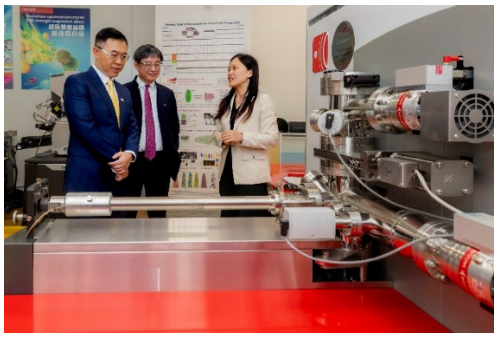
Professor Anderson Shum, CityUHK Vice-President (Research), says the collaboration aims to enhance the stability, lifespan and efficiency of components of power generation equipment.

Photo 4



This photo shows components of power generation equipment produced using metal 3D printing technology. CLP Power and CityUHK will identify suitable applications for metal 3D printing technology in power stations to enhance the durability and performance of metal-printed components.

Photo 5



CLP Power Senior Director of Generation Mr Kevin Lau (left) visits laboratories at CityUHK, accompanied by Professor Lu Jian, Dean of the College of Engineering and Director of the NPMM of CityUHK (middle), to gain an overview of advancements in innovative technologies.

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