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CLP Wins Two Prestigious International Awards for Pioneering Energy-Saving Initiatives to Reduce Carbon Emissions

CLP Power Hong Kong Limited (CLP Power) has won the prestigious Innovative Energy Project of the Year International Award from the Association of Energy Engineers (AEE) in the United States for the first time for promoting the use of environmentally friendly, low-carbon Battery Energy Storage Systems (BESS) on construction sites in Hong Kong. The winning initiative was launched in cooperation with Chinachem Group (Chinachem), Gammon Construction Limited (Gammon) and Ampd Energy Limited (AMPD).

The AEE also presented CLP Power with the Innovative Energy Project of the Year for the Asia-Pacific Rim region for pioneering an innovative artificial intelligence (AI) tool called the Smart Air Conditioner (AC) Controller to help residential customers connected with smart meters to reduce their energy consumption during peak demand periods. It is the fourth consecutive regional accolade CLP Power has received in the annual awards since 2019.

Construction sites have traditionally used diesel generators to power their equipment. CLP Power promotes electrification on construction sites and encourages the industry to switch to BESS to protect the environment and reduce carbon emissions. CLP Power developed a 'General Guideline on BESS Adoption for Construction Sites' which provides practical guidance for the industry on the installation, application, and maintenance of BESS to help construction sites reduce emissions. A series of webinars and workshops was also held by CLP Power to promote the benefits of BESS and provide technical advice to developers and contractors.

CLP Power Managing Director Mr T K Chiang described the company's first Innovative Energy Project of the Year International Award as a tremendous honour. "CLP Power has taken the lead in promoting BESS to the construction industry in response to the global trend towards emission-free construction sites," he explained. "We are delighted with the positive response of the industry, which reduced carbon emissions by around 9,200 tonnes in 2021. We look forward to cooperating with more customers to further expand the adoption of BESS and support Hong Kong to achieve its carbon neutrality goal before 2050."

Chinachem pioneered the use of BESS on its development sites in Hong Kong and supported CLP Power in promoting BESS to the construction sector.

Chinachem Group Executive Director and Chief Executive Officer Mr Donald Choi said, “Chinachem is a company that balances the development of people, prosperity and the planet, which we call our triple bottom line, and is committed to promoting sustainable development. The group has also established a carbon reduction roadmap CCG 3050+, aimed at reducing its carbon emissions by 51.8% by 2030 compared with 2020. We have reduced carbon emissions in a variety of ways, such as working with CLP Power, Gammon, and AMPD to replace traditional diesel generators on construction sites with environmentally friendly, low-carbon BESS, and promoting industry collaboration toward emission-free construction sites.”

CLP Power also took the lead in introducing the AI-powered Smart AC Controller to help residential customers with smart meters reduce their energy consumption during peak demand hours on hot summer days, saving energy and reducing carbon emissions. The AI-powered Smart AC Controller continuously detects the temperature and humidity levels at homes. Using AI technology, the device produces personalised profiles for users and intelligently controls the air conditioner temperature, avoiding energy waste through unnecessary overcooling while keeping homes comfortable. The results showed that participants in CLP Energy-Saving Missions events in the hot summer who used the AI-powered Smart AC Controller saved 30% more electricity than other participating customers.

Mr T K Chiang said, “We are encouraged that the AI-powered Smart AC Controller pioneered by CLP Power successfully reduced peak electricity demand and has now been internationally recognised and commended. We will actively introduce more energy-saving technologies to help customers save energy, reduce carbon emissions, and make Hong Kong a greener, low-carbon smart city.”

The AEE is a non-profit professional society with more than 18,000 members in over 100 countries. Its annual awards programme recognises individuals and organisations worldwide for their achievements in the energy industry.

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.

Photo Captions:

Photo 1



CLP Power teamed up with Chinachem, Gammon, and AMPD to promote the adoption of environmentally friendly, low-carbon Battery Energy Storage Systems (BESS) on construction sites in Hong Kong in an initiative that won the Innovative Energy Project of the Year International Award from the Association of Energy Engineers in the United States.

Photo 2



CLP Power pioneered the innovative AI-powered Smart Air Conditioner Controller*, which helps residential customers with smart meters reduce their energy consumption during peak demand periods. It was named the Innovative Energy Project of the Year for the Asia-Pacific Rim region by the Association of Energy Engineers in the United States.

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*The AI-powered smart AC controller and app were developed by Ambi Labs Limited.